Prepared for: GR (CAN) Investment Co., Ltd

Thundering Waters Secondary Plan

Characterization and Environmental Impact Study



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1. INTRODUCTION

1.1. TERMS OF REFERENCE SUMMARY AND OBJECTIVES

Dougan & Associates Ecological Consulting and Design (D&A) and C. Portt and Associates (CPA) were retained in early 2015 by GR (CAN) Investment Co., Ltd to provide natural heritage support for the Secondary Plan process that has been initiated for the lands colloquially known as Thundering Waters.

Throughout spring and summer 2015, D&A and CPA worked with the Secondary Plan team, the client, and the approval agencies to develop a terms of reference (ToR) to outline the scope for the natural heritage studies required to support, and inform, the Secondary Plan process of important environmental features that will require protection and management.

The ToR for the natural heritage studies used the Niagara Region's Environmental Impact Study (EIS) guidelines as a framework for the proposed scope, as well as input from the Niagara Peninsula Conservation Authority (NPCA). The ToR is provided in Appendix A, and in summary includes the following study objectives for the natural heritage characterization report:

Fieldwork and reporting to identify the following terrestrial and aquatic natural heritage elements was required:

- Provincially Significant Wetland (PSW) areas
- Habitat of Endangered and Threatened Species
- Significant Woodlands
- Habitat of Species of Concern
- Location of NPCA regulated wetlands
- Critical Fish Habitat (Type 1)
- Critical Fish Habitat (Type 2 and 3)

The work plans to address these objectives are outlined in the ToR (Appendix A). Comments on the proposed ToR from NPCA highlighted that, in addition to the proposed work plan, crepuscular bird habitat characterization should be considered (primarily to assess habitat suitability and occurrence of Eastern Whip-poor-will (*Antrostomus vociferus*), as well as inventory for Bat Maternity Roost trees.

1.2. STUDY AREA SUMMARY

The study area is located within the eastern-most extent of the Niagara Peninsula (Map 1), and is bounded by Oldfield Road to the north, Dorchester Road to the west, Chippawa Parkway to the south, and west of Kister Road (Map 1).

In this area, the bedrock geology consists of sandstone, shale, dolostone, and siltstone of the Guelph Formation, which overlays Precambrian basement rock (Ontario Geological Survey, 2011). The study area is also within the Haldimand Clay Plain, and the surficial geology consists predominantly of fine-textured glaciolacustrine deposits of silt and clay with minor sand and gravel components (Chapman and Putnam 1983; Ontario Geological Survey, 2010). In the south-western corner of the study area the soils consist of man-made deposits of fill (Ontario Geological Survey, 2010), which are likely from the excavation of the adjacent Power Canal and/or the Conrail Drain that bisects the study area.

Topographic relief across the site is minimal and generally slopes in a south and south-west direction towards the Welland River and the Power Canal. Fine-scale topographic variation across the site is due to a combination of small moraine ridges in undisturbed areas, and man-made deposits and drainage ditches. The small moraines, or sloughs, underlie most of the Niagara Falls Slough Forest Wetland Complex (NFSFWC), and are characterized by a network of shallow depressions and connecting channels which create complex drainage patterns. Slough topography such as that present on the property was likely formed at the margin of the retreating Laurentide Ice Sheet during the Late Wisconsinan glacial period (Menzies et al. 2001); land use practices during recent times, however have undoubtedly modified these systems. Along Dorchester Road and Chippawa Parkway, most of the slough topography has been eliminated due to filling and piling.

Review of historical imagery for the subject property available on Google Earth[™] suggested that approximately half of the subject property was devoid of vegetation in 1934. This included large areas of the property south of the Canadian National rail line, directly east of Dorchester Road, and south of the western extent of Oldfield Road. The remaining areas that were visible in the mapping indicated that the property supported mature deciduous trees, associated with what is now identified as the Niagara Falls Slough Forest Wetland Complex Provincially Significant Wetland. Aerial imagery taken in 1954 confirmed these patterns, and indicated that some areas of the site have been heavily disturbed in the past 80 years, while other areas (consistent with the wetland complex) have been intact for in excess of 80 years.

2. DATA COLLECTION METHODS

2.1. BACKGROUND REVIEW

2.1.1. MNRF DATA

A spatial query for records of natural heritage areas (e.g. Woodlands, Wetlands, Areas of Natural and Scientific Interest (ANSI)) and Species at Risk) was conducted for the study area and the adjacent 1 km grid squares using data provided by the Natural Heritage Information Centre (NHIC) and their online mapping tool (NHIC, 2015) on May 6th, 2015. Species at Risk records were also requested from local MNRF staff (personal communication with Guelph District MNRF), along with any specific information regarding their occurrence in the area.

2.1.2. NPCA DATA

The Niagara Peninsula Conservation Authority's online mapping tool was used to review existing mapping for Ecological Land Classification (ELC), Environmental Conservation Areas, Wetlands, and associated regulated area layers on April 9th, 2015. Additionally, meetings with the NPCA ecology staff identified potential species of conservation concern and wildlife habitat that would require consideration for field inventory, including: Whip-poor-will and Bat Maternity Roost habitat.

2.2. SITE VISITS

2.2.1. ECOLOGICAL LAND CLASSIFICATION

Vegetation communities were classified and mapped using the Ecological Land Classification (ELC) System for Southern Ontario (Lee et al. 1998). Interpretation of aerial photo/satellite imagery, MNRF wetland boundaries, and a digital elevation model from LiDAR points were used to determine differences in land cover across the study area and to establish potential ELC boundaries. Subsequent site visits were conducted to confirm/refine boundaries and classify the vegetation communities present. The Niagara Natural Area Inventory (NAI) (NPCA 2010) was also reviewed to determine which ELC communities were likely to occur within the study area.

D&A staff completed site visits to classify vegetation communities during the spring, summer, and fall 2015; specific dates and staff present are summarized in Table 1. During each site visit, staff walked transects through each pre-defined polygon to inventory the flora and determine the composition of the dominant canopy species. Soil texture and soil moisture regime were determined using Denholm and Schut (2009) by extracting soil cores within representative areas of each ELC vegetation type.

2.2.2. PLANT INVENTORY

Spring, summer, and fall vegetation inventories were conducted simultaneously with site visits for ELC and wetland boundary delineation, as outlined in Table 1. The habitat requirements for all Species at Risk (SAR) identified during the review of background material were noted and used in the field to improve the potential for detecting these species. When SAR and/ or provincially rare species were

observed, a GPS point and notes regarding the habitat were taken. Vascular plants species that could not be positively identified in the field were collected, pressed, and confirmed at a later date. The nomenclature reported for all vascular plants is consistent with the Natural Heritage Information Centre (NHIC 2014). Federal rankings for identified Species at Risk are from the Committee on the Status of Endangered Wildlife in Canada (COSEWIC, 2015), provincial rankings for Species at Risk are from the Natural Heritage Information Centre (NHIC, 2014), and regional rankings are from Oldham (2010). The native status of identified plants is based on the NHIC (2014).

2.2.3. WETLAND BOUNDARY DELINEATION

As per the request of the Ontario Ministry of Natural Resources and Forestry (Anne Yagi, Pers. Comm.), the boundary of the Niagara Falls Slough Forest Wetland Complex PSW required delineation. D&A staff delineated the boundary using the Ontario Wetland Evaluation System (OWES) protocols; a Trimble GeoExplorer 6000 Series GeoXH high-accuracy GPS unit was used to georeference the boundary. This boundary was reviewed in the field with MNRF and NPCA staff. A summary of the dates and surveyors present for the wetland boundary delineation is provided in Table 1. Adjustments to the PSW were approved in writing by MNRF on May 16th, 2016 (Joad Durst, personal communication).

2.2.4. SALAMANDER INVENTORY

Dougan & Associates undertook a salamander trapping program within the study area. This program was employed to determine the extent of pond-breeding salamander diversity and activity, and to screen for the Endangered Jefferson Salamander (*Ambystoma jeffersonianum*) (Species-at-Risk; COSEWIC 2015; OMNR 2015).

The study involved the capture of pond-breeding salamanders in natural populations at select locations shown in Appendix B. Tissue samples (i.e. tail tips) were required from individual Ambystoma salamanders in order to perform DNA analysis to determine which species or polyploids are present. Tissue samples were obtained in the field and specimens were released at the capture site.

Prior to fieldwork, Wildlife Animal Care Committee Research Protocol (WACCRP), Wildlife Scientific Collectors Authorization (WSCA) and Endangered Species Act (ESA) permits were required. Applications for these permits were submitted on March 27, 2015. OMNRF staff accompanied field staff during the first trapping round to observe protocols and ensure that WACCRP, WSCA and ESA standards were upheld. The following permits numbers were issued for the 2015 trapping program: WACCRP: 15-143, WSCA: 1079399, ESA: GU-B-004-15.

In order to ensure that all individuals are treated with the highest care, standard operating procedures were followed. In particular, the following sets of documents were reviewed prior to fieldwork and recommendations followed wherever applicable:

- Canadian Council on Animal Care Species-specific Recommendations on: Amphibians & Reptiles
- Canadian Council on Animal Care Guidelines on: The Care and Use of Wildlife
- USGS National Wildlife Health Center "Restraint & Handling of Live Amphibians"
- In addition, although toe-clipping was not performed, the USGS National Wildlife Health Centre "Toe-Clipping of Frogs and Toads" (also covers salamanders) was reviewed for general insights

The protocol for trapping in the 2015 season was undertaken to minimize the length of time that captured specimens spent in traps. This lessened the potential of salamanders becoming fatigued and/or oxygen deprived. Salamanders were handled for the shortest amount of time possible, but long enough to collect a tail tip sample. The smallest sample necessary to obtain a successful genetic analysis was taken, approximately 5 mm, which can take up to about a minute of handling time.

The trapping survey period was selected to coincide with adult Ambystomid seasonal migrations to breeding ponds, during early spring associated with the spring thaw. An initial site reconnaissance before trapping was conducted on April 1st, 2015 to confirm pond location; during the visit, target ponds had ice cover between 75 and 100%. Trapping was undertaken one week later, following a warm spring rain. Survey dates and conditions are outlined in Table 2.

Based on site reconnaissance and screening of habitat suitability as well as correspondence with OMNRF (personal communication with Guelph District OMNRF) and results from previous salamander trapping studies on site (unpublished 2009 OMNRF salamander trapping program within the study area), eight ponds were selected for trapping in 2015 (Appendix B). Potentially suitable breeding ponds are present throughout the slough forest habitat on site, and although they vary in size (aerial photo interpretation of ponds suggested ponds range from approximately 26m² to 4032m²), the larger ponds were generally similar in structure and vegetation characteristics. Larger pools were targeted to ensure that the trapping effort was focused on habitat with adequate depth and sufficient vegetation to support egg-laying sites, and thus would increase the chance that salamanders would be captured.

Five traps were deployed in each of the eight ponds surveyed (40 traps total) during the five evenings outlined in Table 2. Within the study ponds, specific trap locations were chosen in the field based on pond shape, depth and the presence of egg-laying sites (e.g. submerged vegetation, logs, shrubs), as these areas are thought to be more attractive to breeding adult salamanders.

Adult salamanders were collected using standard 6mm square, silver wire mesh minnow traps in suitable breeding ponds. On sample nights, the traps were set out before dark and checked early the following morning to minimize the amount of time salamanders spent in the traps. Each trap was flagged, numbered, georeferenced, and attached with rope to a fixed feature on land (i.e. tree, deadfall, rock). Traps were placed in the water with at least 85% of the trap submerged and it was ensured that the trap was lying horizontally on the pond bottom.

When salamanders were caught, specimens handled for analysis were limited to individuals belonging to the "Jefferson Salamander complex" (i.e. *Ambystoma laterale – A. jeffersonianum complex*); other amphibian species and wildlife (e.g. invertebrates and fish) were documented and released. When a specimen from the "Jefferson Salamander Complex" was captured, a small amount of tail tip was removed (~ 5 mm) using a sterile scalpel blade. The tail tip was then placed into a labelled tube of 70% ethanol. After each sample, the scalpel and cutting surface were sterilized using rubbing alcohol and an open flame; scalpel blades were also replaced frequently. After processing, specimens were held for several minutes in a container to monitor for any signs of adverse health effects. After this monitoring period, specimens were released at the point of capture.

On May 7, 2015 tail-tip samples collected during the trapping study were delivered to the lab of Dr. James Bogart, at the University of Guelph. These samples were processed in Dr. Bogart's lab to determine specimen polyploid identification. Results of this DNA analysis were delivered to Dougan &

Associates on June 23, 2015.

2.2.5. NOCTURNAL AMPHIBIAN CALL SURVEYS

Nocturnal Amphibian Call Surveys were conducted in accordance with Bird Studies Canada's Marsh Monitoring Program (MMP). Survey dates were selected to ensure weather conditions were well within the acceptable ranges described by the MMP (Table 3). During site reconnaissance visits throughout the first half of April, 2015, active amphibian breeding habitat and potentially suitable breeding habitat were detected in several parts of the study area. Informed by this site reconnaissance, 10 stations were established around the perimeter of the study area on April 19th, 2015 (Table 3; Appendix B). Three additional stations were added on May 28th, 2015, for a total of 13 surveyed during May and June, 2015 (Table 3; Appendix B). Two of these additional locations, NACS 11 and NACS 12, were established along the Conrail Drain that bisects the study area (Appendix B). NACS 13 was established on the north eastern edge of the study area near salamander Trapping Pond 6 (Appendix B).

2.2.6. BREEDING BIRD SURVEYS

Two breeding bird surveys were conducted on May 28 and May 29 (first survey) and June 4 and June 5 (second survey), 2015, following the protocols outlined by the Ontario Breeding Bird Atlas (OBBA) (Cadman et al., 2007). The survey locations are shown in Appendix B. The OBBA protocol stipulates that the surveys be conducted between sunrise and 10:00 a.m., between May 24 and July 12, during appropriate weather conditions (i.e., light winds, no heavy rains, and good visibility). Given the size of the study area, a total of 32 Point Count Stations (PCS) were surveyed for 10 minutes each (Appendix B), with additional species noted in areas between and outside of the PCS locations. Additionally, nocturnal surveys conducted on May 28th, 2015 were within the preferred window for detecting Whippoor-will (*Caprimulgus vociferus*).

2.2.7. BAT ROOST SURVEYS

Methods for determining presence of bat roosting habitat followed steps 1 and 2 of the OMNRF recommended approaches for bat and bat habitat surveys of treed habitats (OMNRF, 2014). The approach involved screening areas on the property for vegetation communities that include deciduous forests, mixedwood forests, coniferous forests, deciduous swamp, mixedwood swamp, and coniferous swamp. It was determined that deciduous forest and deciduous swamp are both present on the subject property. This was followed up by conducting surveys for cavity trees at 34 locations on the subject property that included woodlands, deciduous forest, and deciduous swamp areas during the leaf-off season (Appendix B). Survey plots followed the OMNRF 2014 guidelines, and used a 0.05 ha circular plot to determine the number of highly suitable snags (> 25 cm diameter at breast height). Since completing the surveys, an updated version of the survey guidelines released, May 2016 (OMNRF, 2016); changes to the guideline recommend that acoustic surveys be conducted prior to snag density survey to determine if SAR bats are present in the area; acoustic surveys were not completed for this EIS.

2.2.8. AQUATIC SURVEYS

Field investigations were conducted by C. Portt and Associates staff, on April 11th, 12th, 21st, June 11th, and October 6th, 2015. The initial field investigations were conducted to characterize the aquatic habitats within the subject properties, and assess their importance under early spring conditions with regard to potential spawning habitat and accessibility for fish. In particular, wetland areas within the subject properties and along the edge of the Welland River were evaluated for their suitability and utilization as spawning areas for Northern Pike (Esox lucius), and watercourses were examined for riffle-spawning fishes such as White Sucker (Catostomus commersonii). Locations that were identified as having potential for spawning and/or more permanent habitats were examined again on April 21st, 2015. Additional observations of flow and general habitat were conducted on June 11th and October 6th. Electrofishing was undertaken on June 11th and October 6th, 2013, using a Halltech 2000 backpack electrofisher. After field identification and enumeration, all fish were released alive at the point of capture. A Garmin GPS 76CSx Global Positioning System (GPS) unit was used to record the locations of all observations and digital photographs, as well as electrofishing locations. Selected photographs of site conditions are provided in Appendix H. Common aquatic plants were identified at a basic level to be included, where appropriate, in habitat descriptions, but no attempt was made to characterize the full aquatic macrophyte community.

The Ministry of Natural Resources and Forestry (MNRF) and the Niagara Peninsula Conservation Authority (NPCA) were also contacted to obtain any relevant existing fish collection information.

3. NATURAL HERITAGE CHARACTERIZATION

3.1. BACKGROUND STUDIES

3.1.1. TERRESTRIAL

The spatial query for NHIC data revealed a total of sixty-three (63) records for species of conservation concern known to occur presently or historically within approximately 1km of the study area. The records include forty-nine (49) species of vascular plants, four (4) birds, two (2) fish, four (4) invertebrates, including three (3) mollusks and one (1) odonate, three (3) reptiles, and one (1) restricted record. The provincial rankings (S Rank; NHIC, 2014) ranged from Presumed Extirpated (SX) to Apparently Secure (S4), though most records are for species that are considered Critically Imperiled (S1), Imperiled (S2), or Vulnerable (S3), or some combination of those rankings. According to COSEWIC (2015), twelve (12) species are Endangered (END), four (4) species are Special Concern (SC), seven (7) species are Threatened (THR), and one (1) species is Extirpated (EXP). Species at Risk in Ontario include twelve (12) Endangered (END), three (3) Special Concern (SC), eight (8) Threatened (THR), and one (1) extirpated species (MNRF; NHIC, 2014).

In addition to the NHIC Query, Guelph District MNRF staff provided the following list of species that may occur in the areas:

- Round-leaved Greenbrier (*Smilax rotundifolia*); Present in Warren Creek PSW- possibly in Niagara Falls Slough Wetland PSW (NFSW)
- Snapping Turtle (Chelydra serpentina); Highly likely using site
- Eastern Flowering Dogwood (Cornus florida); Not likely- upland species
- White Wood Aster (*Eurybia divaricate*); Not likely-upland species
- Swamp Rose-mallow (*Hibiscus moscheutos*); Yes. Present along Chippawa Channel (formerly Welland River)
- Butternut (*Juglans cinerea*); Possibly present
- American Water-willow (*Justicia americana*); No. Present in Lyon's Creek and Dufferin Island Only
- Peregrine Falcon (*Falco peregrinus*); Nesting active in cliff and old OPG building at base of falls in Lower Niagara River
- Eastern Meadowlark (*Sturnella magna*); Good potential in open areas

A review of natural heritage mapping by the NHIC (2014) identified both woodlands and a Provincially Significant Wetland (PSW), the Niagara Falls Slough Forest Wetland Complex (NFSFWC), occurring within the study area (Figure 2). The NFSFWC consists of multiple wetland units both within and outside of the study area. Based on NHIC mapping, seven (7) wetland units occur within the study area, including two relatively large, contiguous units. Aside from the NFSFWC, additional woodlands are shown throughout the study area with the exception of several large areas within the southern half of the study area and along the rail corridor and large drainage feature that bisect the study area (Map 2).

3.1.2. AQUATICS

The MNRF (personal communication with Guelph District MNRF) stated that the MNRF does not have any fish information for this site. The MNRF biologist also suggested that the mouth of the Conrail Drain should be investigated with regard to fish access from the Power Canal, and that spawning Northern Pike (*Esox lucius*) may access the wetlands along the edge of the Welland River.

Correspondence with NPCA biologist indicated that they do not have fish information for this site.

3.2. SITE INVESTIGATIONS

3.2.1. ECOLOGICAL LAND CLASSIFICATION

A total of 13 ELC dominant vegetation communities from Anthopogenic, Cultural, Forest, and Swamp ELC Ecosites were identified among 45 polygons during the site investigations conducted in 2015 (Table 5). Within the some of the ELC communities, an additional seven (7) vegetation types were identified as complexes and/or inclusions with the dominant vegetation types. A summary of the dominant ELC communities is provided in Table 5, and a list of all ELC vegetation types observed including their provincial rankings are provided in Table 6. Oak Mineral Deciduous Swamp (SWD1) accounts for the largest proportion of the study area at 78 ha (40%) followed by Mineral Cultural Woodland (CUW1; 23%), Green Ash Mineral Deciduous Swamp (SWD4-1; 12%) (Table 5). The remaining vegetation communities each amount to approximately 25% of the total study area.

Each of the dominant ELC Ecosites and Vegetation Types is summarized below. For species associated with the ELC polygons see Table 6.

3.2.1.1. ANTHROPOGENIC LANDS

Anthropogenic (ANTH): Polygon 41

Lands classified as ANTH include areas that have been cleared of natural vegetation and are in use for human activities such as parking lots, lawns, residential dwellings, commercial outlets, and industrial structures. Due to the removal of natural habitats, features, and functions from these areas, all lands categorized as ANTH are considered to be low quality.

Anthropogenic lands account for only 3.37ha (1.74%) of the study area, and are found only in the easternmost portion of the study area (Polygon 41; Figure 2). This area is a former industrial site with several buildings, aggregate storage areas, and a driveway from Progress Street. Vegetation within this polygon was sparse and primarily early successional with scattered shrubs and trees. Industrial waste was also present throughout, including piles of garbage and concrete bordering the adjacent vegetation communities.

3.2.1.2. CULTURAL PLANT COMMUNITIES

Dry-Moist Old Field Meadow (CUM1-1): Polygons 7, 25, 42, 43, 44

Cultural meadows represent a very early stage of natural succession. They contain a low abundance of woody species (<25% cover) and are dominated primarily by opportunistic forbs and grasses. Cultural meadows account for 9.76ha (5.0%) of the study area, and are present along and within the Conrail Drain that bisects the study area (Polygon 7), a large open area used informally for all-terrain vehicles along Dorchester Road (Polygon 25), and areas adjacent to the industrial facility (Polygons 42, 43, 44) at the eastern edge of the study area. Polygon 7 is a long, linear, drainage feature, polygon 25 is a large open filled area, and polygons 42 – 44 are old-fields that may have a history of agricultural use based on historic imagery (Google Earth[™], 2015).

Dominant species included exotic forbs (e.g. *Trifolium pretense*, *Vicia cracca*) and grasses (e.g. *Phragmites australis ssp australis, Schedonorus pratensis*), though some native species such as Hemp Dogbane (*Apocynum cannabinum*), Strict Blue-eyed-grass (*Sisyrinchium montanum var. montanum*), and Goldenrod (*Solidago altissima, S. juncea*) were present. Relative cover of trees and shrubs was less than 25%, and included scattered Eastern Cottonwood (*Populus deltoides ssp deltoides*), and patches of Common Buckthorn (*Rhamnus cathartica*), Heart-leaved Willow (*Salix eriocephala*), Gray Dogwood (*Cornus racemosa*), and Dotted Hawthorn (*Crataegus punctata*). Regionally rare species includes Wooly Sedge (*Carex pellita*), which was observed in a moist pocket within polygon 25.

Cultural Thicket (CUT1-1): Polygon 16

These communities are characteristic of lands that have been cleared in the past, left to regenerate, and succeed towards a naturally-vegetated community. Cultural thickets include areas in a somewhat later stage of succession than cultural meadow, where shrub cover is greater than 25% but tree cover remains below 25%. Cultural thicket communities are dominated by woody shrubs and often have an understory of forbs and grasses.

Overall, mineral cultural thicket accounts for approximately 15.7 ha (8.1%) of the land cover within the study area, and is only present as a dominant Ecosite within polygon 16. This area is dominated by Dotted Hawthorn with occasional Gray Dogwood, and scattered trees including American Elm (*Ulmus Americana*) and Eastern Cotton Wood. The herbaceous groundcover community is abundant with Smooth Aster (*Symphyotrichum laeve var. laeve*), Old Field Aster (*Symphyotrichum pilosum var. pilosum*), New England Aster (*Symphyotrichum novae-angliae*), and Wild Strawberry (*Fragaria virginiana*) in moist areas; drier areas contained Gray-stemmed Goldenrod (*Solidago nemoralis*), Early Goldenrod, Canada Pussytoes (*Antennaria howelii ssp. canadensis*), Oxeye Daisy (*Leucathemum vulgare*), and Common St. John's-wort (*Hypericum perforatum*). Notable species include Canada Pussytoes and Yellow Sedge (*Carex flava*), which are both rare within Niagara Region. The substrates within this feature are primarily derived from man-made fill, and consist of unstratified Clay Loam to a depth of 60cm with no mottling.

Gray Dogwood Cultural Thicket (CUT1-4): Polygons 9, 11, 28, 45

Gray Dogwood Cultural Thicket accounts for 7.9ha (4.1%) of the total study area among 4 polygons (Figure 2; polygons 9, 11, 28, 45). These features occur between the Conrail Drain and the rail line

(polygon 9, 11), within the northwest corner of the study area (polygon 45), and in polygon 28 east of polygon 27 (Figure 2). Overall, the species composition within these features was similar to that of polygon 16, but suggestive of slightly more moist soil conditions. Gray Dogwood was the most abundant shrub species rather than Dotted Hawthorn, and tree cover was slightly higher than polygon 16. The occurrence of taller tree species was infrequent and below 25%, and included Green Ash (*Fraxinus pennsylvanica*), Red Maple (*Acer rubrum*), Northern Pin Oak (*Quercus palustris*), Black Cherry (*Prunus serotina*), and American Elm. In moist areas shrub species included White Meadowsweet (*Spirea alba*), Bebb's Willow (*Salix bebbiana*), and Briar Rose (*Rosa rubiginosa var. rubiginosa*), while dominant ground cover species included various Aster species (*Symphyotrichum spp*), Blue Vervain (*Verbena hastata*), Begger's Ticks (*Bidens sp*), sedges (*Carex sp*), Common Boneset (*Eupatoreum perfoliatum*), Purple Loosestrife (*Lythrum salicaria*), Reed Canary Grass (*Phalaris arundinacea*), and Sensitive Fern (*Onoclea sensibilis*); drier areas had Canada Goldenrod (*Solidago canadensis*), Queen Anne's Lace (*Daucus carota*), Common Plantain (*Plantago major*), and Black Knapweed (*Centaurea nigra*). The substrate within these communities was moist Clay Loam, though mottling was generally below 20cm.

Cultural Woodland (CUW1): Polygons 1, 15, 19, 22, 34, 35, 37

Cultural woodlands are treed areas characterized by canopy coverage between 35 – 60%. These communities often represent the stage of natural succession between cultural thicket and forest, but may also represent a disturbed or fragmented forest.

Cultural woodlands were prevalent throughout the study area, and accounted for 44.8ha (23.1%) of the total area among 7 polygons. These areas were complexed with Cultural Thicket (CUT1) due to the open canopy and dense shrub/understory layer of Hawthorn (e.g. *Crataegus punctata, Crataegus succulenta*), Gray Dogwood, Common Apple (*Malus pumila*), and Common Buckthorn (*Rhamnus cathartica*) in many areas. The relative cover of canopy species was below 60% in most areas, and generally consisted of Green Ash and Eastern Cottonwood, with lower abundance of American Elm, White Willow (*Salix alba*), and occasional Northern Pin Oak. Green Ash was the dominant understory species and was present as regenerating stems and as groundcover. Climbing Poison Ivy (*Toxicodendron radicans*) was abundant throughout. Herbaceous groundcover species included Broadleaved Enchanter's Nightshade (*Circaea Canadensis*), Fowl Mannagrass (*Glyceria striata*), Field Horsetail (*Equisetum arvense*), Woodland Sedge (*Carex blanda*), Common Nipplewort (*Lapsana communis*), and Kidney-leaved Buttercup (*Ranunculus arbotivus*). The soil in these features was Clay or Silty Clay with mottling at or well below 20cm.

White Pine Coniferous Plantation (CUP3-2): Polygon 33

Coniferous plantations include vegetation communities where canopy cover is greater than 60% and the dominating canopy trees are conifers, typically planted in rows.

The small White Pine plantation (0.3 ha) was dominated by planted White Pine (*Pinus strobus*) with few other tree species aside from Green Ash. The understory and shrub layer were abundant with Climbing Poison Ivy, Thicket Creeper, and Choke Cherry, while Wild Red Raspberry (*Rubus idaeus ssp strigosus*), Avens species (*Geum* sp), Wild Strawberry, and Virginia Knotweed (*Persicaria virginiana*) were abundant in the ground layer.

3.2.1.3. TERRESTRIAL PLANT COMMUNITIES

Fresh-Moist Ash Lowland Deciduous Forest (FOD7-2): Polygon 13

This small (1.8 ha) vegetation community (polygon 13) borders the north side of one of the large slough forest blocks (polygon 27). The canopy and understory of this feature consist of a mix of Green Ash and Eastern Cottonwood, while the shrub layers is abundant with young Green Ash, Gray Dogwood, Common Buckthorn, and Wild Red Raspberry. The groundcover was abundant with Garlic Mustard, Avens species (*Geum* sp), and Wild Strawberry. The soils within this polygon are moist and of similar texture (Silty Clay) to upland areas within adjacent polygon 27.

Fresh-Moist Poplar Deciduous Forest (FOD8-1): Polygon 14

This small vegetation community (polygon 14; 0.9 ha) included a young Eastern Cottonwood canopy with American Elm, and an understory of Common Buckthorn, Gray Dogwood, and Highbush Cranberry (*Viburnum opulus ssp trilobum*). The groundcover was indicative of relatively moist soils, and included sedges (*Carex gracillima, C. leptonervia*), Rushes (*Juncus dudlyei, Juncus tenuis*), Red-tinged Bulrush (*Scirpus microcarpus*), and Purple Loosestrife. Creeping Spike-rush (*Eleocharis palustris*), a rare species in Niagara Region, was also found within this polygon.

Fresh-Moist Oak – Maple – Hickory Deciduous Forest (FOD9): Polygons 30, 36, 38, 40, 46

Polygons 30, 36, 38, 40 are narrow, fragmented upland and valley slope forests that border the floodplain swamp forest within polygon 31. Due to the narrow shape of these features, the canopy was relatively sparse resulting a denser shrub layer, along with encroachment from the adjacent cultural thickets. The species composition is similar to polygon 31, with a mix of Oak (*Q. rubra, Q macrocarpa*), Shagbark Hickory, and Maple (*A. saccharum*), but contained more upland species such as White Ash (*Fraxinus americana*), Black Cherry (*Prunus serotina*), and White Oak. Understory tree and shrub species included Ash, Eastern Hop Hornbeam (*Ostrya virginiana*), Choke Cherry, Common Buckthorn, and Hawthorns (*Crataegus* sp). Abundant ground cover species included Wild Strawberry, Asters, Enchanter's Nightshade, and Thicket Creeper. The soils in this polygon were Silty Clay with no evident mottling.

Polygon 46 borders the western edge of the large slough forest complex, and was similar in species composition to this polygon and polygons 30, 36, 38, and 40, but contained less of the slough-topography and their associated species (e.g. Pin Oak, Freeman Maple). Relative to these polygons, polygon 46 contained a higher abundance of Shagbark Hickory and White Oak. This polygon is notable for the size distribution of mature trees, and is likely the largest and most contiguous portion of mature deciduous forest within the study area.

3.2.1.4. WETLAND PLANT COMMUNITIES

Oak Mineral Deciduous Swamp (SWD1): Polygons 5, 12, 27, 29, 31, 32)

Oak Mineral Deciduous Swamp occupied the largest proportion of the study area with a total of 76.3ha (39.4%) across six (6) polygons (Figure 2); polygons 5, 27, and 32 make up the core areas of the Niagara Falls Slough Forest Wetland Complex. This feature is characterized by a complex of Oak

(Quercus palustris, Q. macrocarpa, Q bicolor) and Freeman Maple (Acer x freemanii) - dominant bottomland swamp (i.e. sloughs) with intervening Fresh-Moist Oak - Maple Deciduous Forest (FOD9-2) uplands composed of Red Oak, Sugar Maple, American Beech, American Basswood, Shagbark Hickory (*Carya ovata*), Bitternut Hickory (*Carya cordiformis*) Green Ash, American Elm, and White Oak. The subcanopy composition was similar, with the addition of Blue-beech (*Carpinus caroliniana*), Hawthorns, and a higher abundance of Maple, American Beech, and Green Ash than the canopy. The understory was abundant throughout with Spicebush (*Lindera benzoin*), Gray Dogwood, Chokecherry (*Prunus virginiana*), and Hawthorns. The groundcover vegetation was relatively diverse and included species such as Fowl Mannagrass, Sensitive Fern, various sedges, Climbing Poison Ivy, Wild Strawberry, Yellow Trout Lily, Wild Geranium (*Geranium maculatum*), White Trillium, Virginia Knotweed, Garlic Mustard (*Alliaria petiolata*), Dewberry (*Rubus pubescences* and *R. hispidus*), Northeastern Lady Fern (*Athyrium felix-femina var. angustum*), and Spinulose Wood Fern (*Dryopteris carthusiana*).

In deeper slough vernal pools, several additional wetland vegetation types occur, including Buttonbush Mineral Thicket Swamp (SWT2-4) which is a provincially important vegetation community type, and Bulrush Mineral Shallow Marshes (MAS2-2). The Buttonbush Thicket Swamps are dominated by Buttonbush shrubs (*Cephalanthus occidentalis*), and include other abundant species such as Gray Dogwood and Silky Dogwood (*Cornus amomum*); surrounding canopy species include Northern Pin Oak, Black Willow (*Salix nigra*), and American Elm. Less common shrubs included Black Chokeberry (*Aronia melanocarpa*), Black Holly (*Ilex verticillata*), and Mountain Holly (*Ilex mucronata*). The groundcover was rich in graminoid species (e.g. *Eleocharis obtusa, C. lupulina, C. retrorsa, C. tenera, C. tribuloides, C. tuckermanii, Glyceria striata, G. septentrionalis, Juncus effusus, Scirpus pendulus*), as well as forbs such as Ditch Stonecrop (*Penthorum sedoides*), Spotted Water-Hemlock (*Cicuta maculata*), Hemlock Water-parsnip, and Northern Water-horehound (*Lycopus uniflorus*). The Bulrush Mineral Marshes were similar in species composition, though with much less canopy and shrub cover and had a larger percentage of open water with species such as Rufous Bulrush (*Scirpus pendulus*). Soils within this polygon consisted of Clay, Silty Clay, and Clay Loam with mottling at depths ranging from 12cm – 20cm.

Overall, the NFSFWC is an exceptional example of Carolinian slough forest, containing high diversity of native species and a variety of wetland habitats.

Pin Oak Mineral Deciduous Swamp (SWD1-3): Polygons 3, 4

This vegetation type was identified in two small slough polygons along the western edge of the study area, and included 1.3 ha (0.7%) of the total landcover of the study area. The species composition was largely similar to the sloughs within polygons 5 and 7 with a Pin Oak-dominant canopy, and contained similar marsh and thicket swamp inclusions but at a lower abundance.

Green Ash Mineral Deciduous Swamp (SWD2-2): Polygons 6, 8, 18, 26

Green Ash Mineral Deciduous Swamp made up 22.7 ha (11.7%) of the study area across 5 polygons. These features are younger swamp forest than the NFSFWC, with some history of human disturbance such as drainage or filling. Much of the Green Ash-dominant canopy had died back, likely due to Emerald Ash Borer. Some areas of the canopy had a similar species composition to polygons 5 and 27, being Oak-dominant, but were generally younger and lacked the slough topography that defined those communities. Areas with less canopy contained Gray Dogwood Mineral Thicket Swamp (SWT2-9) inclusions, similar to polygons 9, 11, and 28, but with a slightly higher percentage of canopy cover.

The subcanopy and understory layers were abundant with Green Ash, Freeman Maple, Pin Oak, and American Elm, as well as Smooth Arrowwood (*Viburnum recognitum*), Downy Service Berry (*Amelanchier arborea*), Spîcebush, and Tatarian Honeysuckle (*Lonicera tatarica*). Abundant species in the groundcover included Broad-leaved Enchanter's Nightshade, Fowl Mannagrass, Northern Rough-leaved Goldenrod, Sensitive Fern, Climbing Poison Ivy, Panicled Aster (*Symphyotrichum lanceolatum*), and Dark-green Bulrush (*Scirpus atrovirens*). The soils in these features consisted of Clay Loam with mottles from 15cm -25cm.

Willow Mineral Deciduous Swamp (SWD4-1): Polygons 2, 10, 17, 20, 21, 23, 24

Willow Mineral Deciduous Swamp (SWD4-1) made up approximately 4.9 ha (2.5%) of the study area and was found in seven (7) polygons. These features are dominated by White Willow and Eastern Cottonwood with Black Walnut (*Juglans nigra*) and American Elm, in both the canopy and subcanopy. The understory consists of Silky Dogwood (*Cornus amomum*) and Gray Dogwood, Highbush Cranberry, Hawthorns, Chokecherry and Bebb's Willow. The groundcover composition includes Wild Strawberry in upland areas, and in wetter areas Field Horsetail, Panicled Aster, Coltsfoot (*Tussilago farfara*), Northern Water-horehound, and Pin Oak seedlings. The soils within polygons 17, 21, 23, and 24 are similar to those of the CUW1-1 and SWD2-2 polygons. However, unlike the rest of the study area, the soils underlying polygon 17 consist of fine sandy loam with to a depth of 75cm with the water table at a depth of 22cm. No mottles were evident within 20cm.

3.2.2. PLANT INVENTORY

A total of 333 vascular plants were observed during the field investigations, and 307 of these were identified to the species level (Table 6). Of the identified species, approximately 75% are considered native within Ontario (NHIC 2014). A summary of the rankings for vascular plant species is provided in Table 6; no federal or provincial Species at Risk were observed. The Floristic Quality Index (FQI) for the study area was 20.29 including native and exotic species, and was 65.51 for native species only. The relatively high FQI for native species indicates a high richness of species with specific habitat requirements, and is driven primarily by species observed within the NFSFWC polygons. The mean wetness index for the study area was -0.31.

Notable plant species findings included: Schreber's Aster (*Eurybia schreberi*), an Imperiled (S2) species within Ontario; and Honey-Locust (*Gleditsia triacanthus*), an Imperiled to Vulnerable (S2S3) species within Ontario. Both are rare within Niagara Region. The identification of Schreber's Aster was confirmed by John Semple (personal communication) of the University of Waterloo; he is an expert in Asteraceae taxonomy and identification. This species was detected in the upland areas of the Oak Mineral Deciduous Swamp (polygon 27; Map 2). The two Honey-Locust observations (one subcanopy tree approximately 20cm dbh, and 1 seedling) are likely naturally established trees based on them having large thorns (thorns are lacking in the commonly planted cultivars) (Farrar, 1995). Furthermore, the two trees were observed growing within an Oak Mineral Deciduous Swamp (polygon 31; Figure 2), which is consistent with the rich bottomland deciduous forests that native cultivars of this species are typically associated with (Farrar, 1995).

Based on communication with MNRF and NPCA staff, Black Gum (*Nyssa sylvatica*) and Round-leaved Greenbrier are also present in some areas within the NFSFWC; though they were not observed by D&A staff in the study area, they do have potential to be present on the property. For example, Round-

leaved Greenbrier is documented on the adjacent property north of Oldfield Road. A further 51 species that were detected are considered Rare or Uncommon in Niagara Region (Table 6).

Overall, the study area contains a rich assemblage of rare to uncommon native species with an affinity for high-quality wetland habitats.

3.2.3. SALAMANDER TRAPPING

The 2015 trapping program was successfully implemented within the seasonal migration of *Ambystoma* spp. to breeding ponds. During reconnaissance to the study area on April 1, 2015, all of the target pond surfaces were variously frozen between approximately 75 and 95%. One week later, after a warm rain, the first trap session was undertaken (April 7 and 8, 2015) followed by four additional trap sessions over the following twelve days (Table 7). *Ambystoma sp.* (later determined to be *Ambystoma laterale* and various unisexual polyploids) were captured in all but one of the target ponds (Table 7). No other salamander species were captured during the 2015 trapping program.

The number of captured salamanders was generally related to pond size and vegetation cover. Pond 1 and Pond 8 (Appendix B) had the highest number of captured salamanders; both exhibit considerable cover from Buttonbush (*Cephalanthus occidentalis*) and other emergent shrubs, which serve as egg-laying sites for Blue-spotted salamanders. These ponds were also relatively large and deep, providing more vernal pool habitat and ensuring that these habitat sites did not dry out too quickly for sufficient salamander development (JSRT, 2009). Pond 7 is a large pond, however it is not as deep as Pond 8 and has little cover for potential egg-laying sites. Pond 5 appeared to have sufficient emergent shrub cover for egg-laying sites, however it is directly adjacent to Oldfield Road; no salamanders were captured in this pond suggesting there may be road mortality, water quality issues, or other forms of encroachment, which reduce the suitability of Pond 5 as breeding habitat for Blue-spotted Salamanders. Despite having substantial vegetation cover, numerous canisters, fuel drums and other debris were dumped in Pond 4, which may have inhibited the suitability of this pond for breeding Blue-spotted Salamanders.

Incidental species captured during trapping included Spring Peeper (*Pseudacris crucifer*), Stickleback (*Gasterosteidae sp*), and Predaceous Diving Beetle (*Dytiscidae sp*).

Salamander tail-tip samples analyzed by Dr. Bogart (University of Guelph) identified the captured individuals as *Ambystoma laterale* (Blue-spotted Salamanders) and unisexuals (Blue-Spotted Genome dominant) present within the study area (Appendix E). The unisexuals were both female Ambystoma polyploids with a predominance of *A. laterale* chromosomes, which require the presence of male *Ambystoma laterale* to stimulate reproduction (JSRT, 2009). The specific unisexuals present were the triploid *Ambystoma* (2) *laterale – jeffersonianum* or 'LLJ' as well as the tetraploid *Ambystoma* (3) laterale *– jeffersonianum* or 'LLJ'. No endangered Jefferson Salamander (*Ambystoma jeffersonianum*) or Jefferson dominant polyploids were detected.

These results are consistent with the findings from previous salamander studies conducted at other areas on the site, including: OMNRF surveys conducted within the study area, which captured 37 salamanders within the *Ambysoma laterale* (LL) and *Ambystoma* (2) *laterale – jeffersonianum* (LLJ) genotypes (personal communication, Guelph District MNRF), and results presented in a report by L. Campbell and Associates (2005). The 2015 findings indicate that all salamanders present are Blue-

spotted (*A. laterale*) and Blue-spotted dominant polyploids and there is no evidence of Jefferson Salamander or Jefferson dominant polyploids within the study area.

3.2.4. NOCTURNAL AMPHIBIAN CALL SURVEYS

During the amphibian call survey, six anuran species were heard calling within the study area including Spring Peeper (*Pseudacris crucifer*), American Toad (*Anaxyrus americanus*), Western Chorus Frog (*Pseudacris triseriata*), Northern Leopard Frog (*Lithobates pipiens*), Gray Treefrog (*Hyla versicolor*), and Wood Frog (*Lithobates sylvaticus*). Survey locations are shown in Appendix B and survey results are summarized in the table below as well as in further detail in Appendix F.

Four species of anurans with moderate levels of calling activity were detected in the slough forest ponds along the north section of the property (NACS 1, 2, 13; Appendix B). Western Chorus Frog was most abundant; at least 11 individuals were detected in ponds close to Oldfield Road. Spring Peepers were heard calling throughout this area, but only a few individuals were recorded. American Toad was recorded deeper into the slough forest greater than 100m from the roadside survey stations. Only a couple of calling Gray Treefrogs were detected.

The west section of the property, north of the Conrail Drain (NACS 3, 4, 5; Appendix B) had a relatively low species richness (three species) of anurans and lower number of calling individuals. Spring Peepers were heard calling from southeast of NACS3 and east of NACS4; they were also heard calling just south and east of NACS5. Three Western Chorus Frogs were heard calling from within 100m east of NASC3 and NASC5. They were also heard calling from within 100m southeast of NASC 5. Gray Treefrogs were heard calling from all three stations at low abundances, one to three individuals.

Surveys along the south side of the Conrail Drain (NACS6 and 11; Appendix B) documented five (5) anuran species: Spring Peeper, American Toad, Western Chorus Frog, Northern Leopard Frog, and Gray Treefrog. Breeding habitat just southeast of NACS6 supported only small populations of Spring Peeper, Western Chorus Frog, Northern Leopard Frog, Gray Treefrog, and American Toad. Two Western Chorus Frogs were heard calling from greater than 100m to the east. Only Gray Tree Frog was detected from the survey location in the central area of the property south of the Conrail Drain (NACS11). Other species such as Western Chorus Frog and Spring Peeper would likely have been detected if the location was included in the first round of surveys in April.

In central areas of the property south of the Conrail Drain (NACS12; Appendix B), only Gray Tree Frog was detected; in part because this location was included only after the first round of surveys. Despite being the only species detected, ponds in this area supported a high abundance of Gray Tree Frog. It is assumed that ponds in the slough forest east of NACS 12 also support other early breeding amphibians such as Spring Peeper and Western Chorus Frog.

Surveys within the south section of the property along Dorchester Road (NACS7, 8, 9, 10; Appendix B) documented five species: Spring Peeper, American Toad, Western Chorus Frog, Gray Treefrog, and Wood Frog. Spring Peepers were heard calling from NACS 7, 8, and 9; abundance ranged from a few individuals to a full chorus (north of NACS9). Many American toads were documented at NACS 8. Western Chorus Frog was very abundant just north of NACS9, but was recorded in low abundance across the other survey locations in this area of the property. Gray Treefrog were present along the southern border of the study area in low abundances. One Wood frog was heard calling north of NACS 9 at a distance greater than 100m.

3.2.5. BREEDING BIRD SURVEYS

A total of 67 species of birds was detected during the breeding bird surveys; 56 of these species were considered at least possibly breeding on the site. Nine (9) species were observed flying over the site only, and not considered breeding (Code 'X' – see Table 9), while two (2) species were categorized as migrants only: Blackpoll Warbler (*Setophaga striata*) and Wilson's Warbler (*Cardellina pusilla*). Of the 56 species of breeding birds, three of them are considered introduced (non-native): Rock Pigeon (*Patagioena livia*), European Starling (*Sturnus vulgaris*), and House Sparrow (*Passer domesticus*).

Of the remaining 53 species, four (4) are designated as Species at Risk (SAR): Eastern Wood-Pewee (*Contopus virens*), Acadian Flycatcher (*Empidonax virescens*), Barn Swallow (*Hirundo rustica*), and Wood Thrush (*Hylocichla mustelina*). Acadian Flycatcher is designated as "Endangered" at both a federal level and a provincial level, while Barn Swallow is considered "Threatened" at both levels (COSEWIC 2014, COSEWIC 2015, OMNRF 2015). Eastern Wood-Pewee is categorized as Special Concern at both federal and provincial levels and Wood Thrush is ranked as Threatened federally and Special Concern provincially (COSEWIC 2014, COSEWIC 2015, OMNRF 2015). An additional SAR – Chimney Swift (*Chaetura pelagica;* Threatened federally and provincially) – was observed foraging over the site, but not expected to be nesting on the property as no nesting habitat is present.

At a provincial level, 52 of the 53 native breeding species have been assigned an Srank of either S4 or S5 by the Natural Heritage Information Centre (NatureServe Explorer, 2015), indicating that their provincial populations are "apparently secure" or "secure", respectively (NHIC, 2015). The one exception is Acadian Flycatcher, which is ranked as S2S3, indicating that its provincial populations are considered Vulnerable.

At a regional level, 12 species – Northern Flicker (*Colaptes auratus*), Eastern Wood-Pewee (*Contopus virens*), Acadian Flycatcher (*Empidonax virescens*), Willow Flycatcher (*Empidonax traillii*), Wood Thrush (*Hylocichla mustelina*), Brown Thrasher (*Toxostoma rufum*), Blue-winged Warbler (*Vermivora cyanoptera*), Eastern Towhee (*Pipilo erythrophthalmus*), Field Sparrow (Spizella pusilla), Savannah Sparrow (*Passerculus sandwichensis*), Rose-breasted Grosbeak (*Pheucticus ludovicianus*), and Baltimore Oriole (*Icterus galbula*) – have been designated by Ontario Partners in Flight as priority landbird species in Bird Conservation Region (BCR) 13 (Lower Great Lakes - St. Lawrence Plain) (OPIF, 2008); in Ontario, BCR 13 corresponds roughly with the area south of the Canadian Shield. The Ontario Landbird Conservation Plan, from which the list of priority landbird species was obtained, is a coalition of government agencies and organizations led by Environment Canada Ontario Region (EC) and the Ontario Ministry of Natural Resources and Forestry (OMNRF), in partnership with Bird Studies Canada (BSC).

At a local level, 36 of the 56 potentially native and non-native breeding species are considered common to very common within the Region of Niagara (Black and Roy 2010). The 20 exceptions are as follows:

 Uncommon – Wood Duck (Aix sponsa), Wild Turkey (Meleagris gallopavo), Sharp-shinned Hawk (Accipiter striatus), Cuckoo sp. (Coccyzus sp.), Great Horned Owl (Bubo virginianus), Red-bellied Woodpecker (Melanerpes carolinus), Hairy Woodpecker (Picoides villosus), Willow Flycatcher (Empidonax traillii), White-breasted Nuthatch (Sitta carolinensis), Wood Thrush (Hylocichla mustelina), Brown Thrasher (Toxostoma rufum), Blue-winged Warbler (Vermivora cyanoptera), Eastern Towhee (*Pipilo erythrophthalmus*), Field Sparrow (*Spizella pusilla*), Swamp Sparrow (*Melospiza georgiana*), and Scarlet Tanager (*Piranga olivacea*)

- Uncommon to rare Orchard Oriole (*Icterus spurius*)
- Rare Tufted Titmouse (*Baeolophus bicolor*)
- Rare and local Yellow-throated Vireo (Vireo flavifrons)
- Extremely rare Acadian Flycatcher (*Empidonax virescens*)

The Ontario Ministry of Natural Resources (OMNR, 2000) considers eight (8) of the species recorded as being area sensitive: Sharp-shinned Hawk, Hairy Woodpecker, Acadian Flycatcher, Yellow-throated Vireo, Tufted Titmouse, White-breasted Nuthatch, Savannah Sparrow, and Scarlet Tanager. This indicates that the species requires large areas of suitable habitat for its long-term survival and is therefore more sensitive to development.

For application of the Migratory Birds Convention Act (Government of Canada, 1994a,b), 45 of the 56 species recorded as at least possibly breeding are protected by the Act. As such, it means that it is illegal to harm or kill these species, or to harm or destroy their nests and nesting habitat. The 11 species that are afforded no protection from the Act are Wild Turkey, Sharp-shinned Hawk, Rock Pigeon, Great Horned Owl, Blue Jay, American Crow, European Starling, Red-winged Blackbird, Common Grackle, Brown-headed Cowbird, and House Sparrow.

For application of the Endangered Species Act (ESA) (Government of Ontario, 2007) and the Species at Risk Act (SARA) (Government of Canada, 2002), five bird Species-at-Risk were detected on the site: Chimney Swift, Eastern Wood-Pewee, Acadian Flycatcher, Barn Swallow, and Wood Thrush. These five species are discussed below:

- Chimney Swift Designated "Threatened" in Ontario and Canada; one bird was recorded foraging overhead at PCS 29; this species was not considered to be breeding on the site as no suitable nesting habitat (e.g. chimneys) is present within it. There are likely suitable chimneys for breeding in nearby areas, accounting for the presence of this foraging bird.
- Eastern Wood-Pewee Designated "Special Concern" in Ontario and Canada; at least single birds were heard at 13 PCS's during the surveys; two of these stations had multiple birds singing and three additional birds were detected between stations.
- Acadian Flycatcher Designated "Endangered" in Ontario and Canada; one bird was heard singing at PCS 28 on May 29; it was not subsequently observed so this bird would not be considered territorial.
- Barn Swallow Designated "Threatened" in Ontario and Canada; one bird was seen foraging west of PCS 7 on May 28. There is no suitable breeding habitat (e.g. barns, bridges) and limited foraging habitat available on the site. There are suitable structures for breeding in the general vicinity so this species may occasionally be present foraging in any open habitats.
- Wood Thrush Designated "Threatened" in Canada and "Special Concern" in Ontario; this species was recorded at 18 PCS's, with three of the PCS having multiple birds. Three additional birds were detected between or beyond the point count stations.

Additionally, Whip-poor-will was not detected during nocturnal surveys that took place on the night of May 28th, 2015, despite being conducted during the peak calling window for 2015; the peak window for detecting Whip-poor-will in 2015 was May 25th to June 2nd.

For full details on the breeding bird surveys for this site, please see Table 9.

3.2.6. BAT ROOST HABITAT

The calculated standing snag density at 19 of 34 plots was found to exceed the Significant Wildlife Habitat guideline criteria for Bat Maternity Roost habitat (10x25cm dbh snags/hectare) (OMNRF, 2000). Densities ranged from 0 snags/ha to 60 snags/ha. The majority of plots (19 of 35) contained 20/ha or more snags of 25cm dbh (or greater) (Appendix I).

Density averages for all plots within each polygon were calculated, which identified 6 of 12 polygons as having a sufficient number of snags to be consistent with SWH Bat Maternity Roost habitat (OMNR, 2000). Furthermore, the density of snags that are present within the woodlands on the subject property based on the survey results suggest that potentially suitable species-at-risk (SAR) bat habitat is present. Acoustic monitoring to determine presence of SAR bats on the subject property was not within the scope of work for the secondary plan EIS; next steps are discussed further in the section dealing with environmental impacts, and environmental management recommendations for Bat Roost Habitat.

3.2.7. INCIDENTAL SPECIES

Two additional bird species were detected during other field surveys that are likely breeding. American Woodcock (*Scolopax minor*) was heard calling during nocturnal amphibian surveys on April 19, 2015; it was near nocturnal amphibian station 6. A Wilson's Snipe (*Gallinago delicata*) was observed near pond 6 during salamander surveys on April 10, 2015. Neither of these species are considered SAR; both are common and widespread in southern Ontario. American Woodcock is considered common locally, while Wilson's Snipe is considered uncommon (Black and Roy 2010).

An unidentified owl (possibly Barred Owl, *Strix varia*) was observed on April 10, 2015; this species has no breeding status in Niagara Region (Black and Roy, 2010). No owl calls were heard during subsequent evening site visits for amphibian surveys (April 19th, May 28th, June 24th, 2015). Given the relatively early spring date, it could have represented a spring migrant.

An unidentified turtle (likely Snapping Turtle, *Chelydra serpentina*, based on size) was observed by George Coker in the large pond in polygon 24 (Map 2) on June 11th, 2015 while conducting aquatic surveys of the site.

Other species and/or signs of species (e.g. tracks) that were observed while conducting site visits included:

- Coyote (*Canis latrans*)
- White-tailed Deer (Odocoileus virginianus)
- Eastern Chipmunk (Tamias striatus)
- Grey Squirrel (*Sciurus carolinensis*)
- Raccoon (*Procyon lotor*)
- Eastern Gartersnake (Thamnophis sirtalis sirtalis)

3.2.8. AQUATICS

3.2.8.1. SHORELINE

While not part of the subject property, the flattest and lowest areas along the shore of the Welland River, between the river shoreline and Dorchester Road, were examined in detail for Northern Pike spawning areas on April 11th, 2015 (Appendix B). While there were shallow wet locations in this area, the shoreline was not overtopped by the adjacent river to provide access for Northern Pike, nor was there any evidence that overtopping had occurred recently (Photographs 1 and 2). This area was examined briefly during all subsequent site visits, and on no occasion was the bank overtopped or was there evidence of recent overtopping. Therefore it appears that this area did not provide Northern Pike spawning habitat in 2015, though there may be some potential spawning locations in shallow nearshore areas with dense rooted aquatic macrophytes in the Welland River.

3.2.8.2. WATERCOURSES

There are three main watercourses that provide potential access routes for fish from the Welland River and the Power Canal into the interior of the subject property. Watercourse 1 is approximately 212 m long and begins at an old concrete culvert outfall, which is believed to convey flows from a network of legacy pipes that drain surface water, via inlets and broken sections, from the elevated south-central portion of the subject property. The outfall, at the base of an embankment, feeds a small marsh pocket about 30 m long and 13 m wide, which drains through a shallow, 4 to 5 m wide, mud-bottomed watercourse (Photograph 3) to the Welland River. This watercourse appears to be a dug drainage ditch. It has a gentle gradient and in early April it had approximately 10 cm of water depth, which had dwindled to a few centimetres by June 11th, 2015 and was dry when examined on October 6th, 2015. Near its downstream end at its culvert beneath Dorchester Road, it has emergent and submergent aquatic macrophytes (Photographs 4 and 5). Due to the low flow velocity and abundant aquatic plants in its lower section near the Welland River, as well the low gradient connection to the marsh at its upstream end, it is thought that this watercourse represents the best potential Northern Pike spawning habitat within or immediately adjacent to the subject property. Therefore, it was targeted twice for spawning observations (April 11th and 21st, 2015), and electrofished twice (June 11th and October 6 th, 2015) in search of young-of-the-year (YOY) Northern Pike (Table 10). No spawning Northern Pike, or young-of-the-year, were observed.

Watercourse 2 appears to originate within the Thundering Waters Golf Club grounds, northeast of the subject property. On all field investigations in 2015 there was flowing water in Watercourse 2: estimated at 15 L/s on April 12. When Watercourse 2 first enters the subject property it is a straight mud channel, approximately 140 m long, that has been historically channelized (Photograph 6). It then passes through a 70 m long culvert beneath the entrance of a derelict industrial site, but it is not perched at the downstream end and may not be a barrier to the upstream movement of fish. For 104 m downstream of the culvert the watercourse appears to be straightened with rip-rap along much of the banks. For the remaining 816 m to its confluence with the Welland River, Watercourse 2 appears to be a natural meandering channel set within a small valley feature. The upper 634 m of this 816 m long section has a fairly uniform, shallow, clay/mud channel (Photograph 7). Coarse material mixed into the clay/mud substrate occurs where the watercourse passes the end of Don Murie Street, which may be the source of this material, and continues to occur in the channel for approximately 100 m downstream (Photograph 8). Downstream of this coarse material, the remaining 94 m of Watercourse 2, to its confluence with the Welland River is dominated by soft clay mud.

Northern Pike, nor any other fish, were not observed when Watercourse 2 was walked along its entire length in April 2015. There were no accessible wetlands along Watercourse 2, or any aquatic vegetation within the channel, that could be used for Northern Pike spawning. The general lack of instream cover within the largely featureless channel of Watercourse 2 likely contributes to the lack of fish observed. The clay/mud substrates through most of the watercourse would not provide spawning habitat for White Suckers or any of the other common fishes that spawn in flowing waters over coarse substrate. The only exception to this is the short section of channel with coarse material near the downstream end of Watercourse 2, but no spawning fishes were observed here even though the water temperature was 12.2°C on April 21, which is within the range for White Sucker spawning (Scott and Crossman, 1973), and the White Sucker spawning run was well underway at locations in the Hamilton area. No fish were captured by electrofishing on June 21, even though a significant length of stream was fished. However, low numbers of six species, including YOY White Sucker, were captured in the same watercourse section on October 6, 2015 (Table 10). It is not known if the YOY suckers were spawned in this watercourse, or were spawned at some off-site location and have come to occupy this watercourse as a way of avoiding predatory fishes in the Welland River.

The Conrail Drain (Watercourse 3; WC3, Map 2), is a deep, straight, artificial channel, lined with rip-rap along its entire length (Photograph 9). There was some flow observed here during every field investigation in 2015, with, as expected, the highest flow in April and the lowest in October. Some sections of the watercourse had only interstitial flow through the rip-rap channel liner, which would severely inhibit the movement of large fish if they were to occur here. However, it is not expected that larger fish can move into this watercourse from its mouth at the Power Canal, because the steeper-sloped channel in this location, combined with failing and thick gabion rock baskets and the rooted vegetation through which all but the highest flows likely pass, will block upstream movement of large fish (Photograph 10). It was not expected that a diverse fish community could exist under the observed condition of Watercourse 3, and electrofishing only captured Brook Stickleback (Table 10).

Watercourses 4 and 5 are short and have ephemeral flow, and do not appear to have a surface connection to the Power Canal.

Large areas of shallow surface water were observed within the subject property during April. These areas were inaccessible to fish, in particular Northern Pike which can utilize such habitats for spawning, and most were dry by June. One isolated pond was observed to remain permanently wet through 2015 and to support a community of aquatic plants, but no fish were captured (Table 10).

In summary, watercourse features that provide fish habitat are largely restricted to Watercourse 2 (WC2, Map 2). The fish captured during this investigation are considered common and not at risk in southern Ontario. Most of Watercourse 1 (WC1, Map 2) upstream of Dorchester Road provides seasonal, relatively unproductive, non-spawning habitat for fish. Watercourse 2 (WC2, Map 2) is a largely natural watercourse with permanent flow within a small valley feature. While habitat is generally simple and unproductive, it is presently unclear if it provides limited spawning habitat for off-site fishes; retention will likely be required. Watercourse 3 (WC 3, Map 3) is a constructed drainage ditch that provides no spawning habitat for off-site fishes, nor can it be accessed by large off-site fishes. It is relatively unproductive and only supports a sparse population of Brook Stickleback. Watercourses 4 and 5 (WC4 and WC5, Map 2) are not considered fish habitat at this time. The numerous shallow upland wet areas observed in April appeared to all be isolated from fish-occupied waters, and therefore are not expected to contribute to fish habitat on the subject property.

4. ECOLOGICAL CONSTRAINTS AND ENVIRONMENTAL MANAGEMENT PRINCIPLES

The findings from the Natural Heritage Characterization Assessment provided the context for the environmental management strategy for the Secondary Plan area. The strategy considered the use of the mitigation hierarchy (i.e. avoidance, minimization, mitigation/rehabilitation, and compensation) to outline anticipated impacts that may result from the proposed land use, servicing, and transportation scenarios.

Four core strategies were proposed as a means to guide the process of developing an effective environmental management plan to address the sensitivities and functions of the identified natural features and species within the Secondary Plan area:

- i) Consolidate and complement the existing protected areas where important natural features are adjacent to and contiguous with the PSW/EPA boundaries (e.g. mature woodlands/trees and/or habitat for species of conservation concern).
- ii) Promote opportunities/functional linkages of protected areas using a combination of natural and anthropogenic corridors.
- iii) Identify areas on-site that provide practical opportunities for enhancement and/or compensation for natural areas that will be impacted in the context of future urban uses.
- iv) Outline appropriate inventory and monitoring methods to assess the environmental management strategy objectives and targets and establish adaptive measures.

To address the natural heritage features and species that are likely to trigger provincial and municipal policy, direction on the first three principles outlined in the foregoing is summarized in Table 11. Mitigation recommendations are provided, as well as key considerations in developing the environmental management strategy. Environmental management areas are identified on Map 3. The three categories presented include primary, secondary, and tertiary management areas. Primary management areas included features of the highest constraint (i.e. PSW wetlands). Secondary areas included non-PSW wetlands, deciduous forest, and cultural woodlands. Tertiary areas included early successional habitats, cultural plantations, and proposed buffer areas.

Natural features that are identified as avoidance areas include the slough forest wetlands designated as Provincially Significant Wetland (PSW) and Environmental Protection Areas (EPA) in the City's Official Plan (OPA 96, Schedule A). In addition to the protected PSW/EPA areas, buffers are recommended based on NPCA requirements, addressing factors such as feature sensitivities, functional linkages (e.g. hydrology and wildlife corridors) to adjacent lands, and proposed land uses. Additional lands and/or natural heritage elements outside of the PSW/EPA that complement the natural features that occur within the PSW/EPA, provide significant wildlife habitat, and/or provide important ecological linkage functions, are recommended for protection and/or management.

The natural heritage elements and preliminary policy triggers that have been documented on the property and are present in Table 11, include the following:

- Provincially Significant Wetland Slough Forest
- Watercourse 1 and 2 and associated floodplain (WC1 and WC2, Map 2)
- Endangered/Threatened Species at Risk and their associated habitat
- Old growth/Mature Forest Habitat
- Shrub/Early Successional Bird Habitat
- Bat Maternity Roost Habitat
- Mast Tree Habitat
- Amphibian Breeding Habitat (Woodland Type)
- Habitat for Provincially Rare and/or Species of Special Concern (Schreber's Aster, Honey Locust, Eastern Wood-Pewee, Wood Thrush, and Snapping Turtle)
- Reptile Hibernacula
- Deer Winter Congregation Areas
- Rare Vegetation Communities
- NPCA regulated wetlands
- ECA woodlands

To document the proposed approach to managing the identified natural heritage features and elements present on the property, a series of Environmental Management Principles were developed to help guide the process (Appendix J). The environmental management principles were reviewed by the Secondary Plan Steering Committee and provide direction on recommended methods for rationalizing a natural heritage system on the property that protects EPA areas and, to the extent possible, provides for representation of the natural heritage features, habitats, and elements outlined above.

The environmental management principles are also used as method to evaluate potential impacts arising from the proposed land use plan, recommendations for enhancement, and recommendations for compensation.

These environmental management concepts were also incorporated into five overall principles that were presented to Niagara Falls City Council on April 26th, 2016. Council supported the preparation of a Secondary Plan based on the five principles as well as input from received from the public and agencies. The principles are outlined in more detail in the next section.

5. ENVIRONMENTAL MANAGEMENT PRINCIPLES AND IMPACT ASSESSMENT

Impacts to natural features that are present on the subject property are addressed in light of the Environmental Management Principles that were reviewed by the Thundering Waters Secondary Plan Steering Committee, and incorporated into the overall principles supported by Niagara Falls City Council as the basis for preparation of the Secondary Plan. The Environmental Management Principles provide guidance on natural heritage features and elements that should be considered for protection and/or representation within a proposed Natural Heritage System (NHS) on the subject property. The key directions were provided under five sections:

- 1. Recommendations for protection
- 2. Opportunities for enhancement
- 3. Special consideration areas
- 4. Integration with built form
- 5. Implementation and permitting considerations

Potential impacts and recommendations for environmental management are addressed explicitly under recommendations for protection. Additional NHS elements considered under this section included opportunities for linkages to onsite and offsite natural heritage features. Impacts to the natural heritage features and elements are identified. Opportunities for mitigation are recommended. Where mitigation recommendations cannot fully address impacts, and residual impacts are anticipated, recommendations for follow-up study and compensation planning are proposed that they be addressed during future stages of planning, in conjunction with submission of draft plans of subdivision.

The subsequent sections relating to opportunities for enhancement, special consideration areas, integration with built form, and implementation and permitting considerations, are presented from the Environmental Management Principles report and are intended to provide direction when preparing draft block plans.

5.1. RECOMMENDATIONS FOR PROTECTION

The impacts to natural heritage resources summarized below are based on the land use plan provided to D&A on May 20th, 2016. The impacted areas were calculated in GIS by overlaying the block plan onto vegetation community mapping in the D&A ELC layer. Where development blocks overlap with natural heritage features, it is expected that complete removal of the features would occur (i.e. direct impact).

Table 12 provides a summary of the existing land cover (ELC Community Series) that is anticipated to be impacted by the proposed land use plan (Map 3). Impacted areas include those directly lost for the proposed change in land use. Under the proposed land use plan, the total area to be directly impacted would be approximately 96 ha (Table 12). These losses are primarily within cultural vegetation community types (meadows, plantation, thickets, and woodlands) and existing anthropogenic lands (68 ha). In terms of total area removed, the vegetation communities most heavily impacted include

Cultural Woodlands (33 ha; 75% reduction), non-PSW Deciduous Swamp (24 ha; 82% reduction), and Cultural Thickets (23 ha; 96% reduction). This is followed by impacts to Cultural Meadow (8 ha, 87% reduction), Deciduous Forest (2 ha; 35% reduction), PSW Deciduous Swamp (1.3 ha, 2% reduction), and Coniferous Plantation (0.3 ha; 100% reduction).

The following sections outline impacts that are anticipated given the removal of the various vegetation types. Potential impacts are identified, along with proposed mitigation and/or compensation measures to address impacts.

5.1.1. PROVINCIALLY SIGNIFICANT WETLAND SLOUGH FOREST

Potential Impacts

Much of the study area contains the Niagara Falls Slough Forest Wetland Complex Provincially Significant Wetland (NFSFWC) which consists of series of wetland patches within and outside of the study area. The PSW boundary within the study area was investigated based on NPCA mapping, and delineated by D&A during 2015; a site visit was also conducted with MNRF and NPCA biologists to verify the delineated wetland boundary. MNRF provided confirmation of the proposed updates to the PSW boundaries for the study area on May 16, 2016 (Joad Durst, personal communication).

The largest wetland unit (polygon 5, Map 2) is located northwest of the of the rail line and is an Oak Mineral Deciduous Swamp (SWD1) with prominent slough features; the second largest (polygon 27) is located south of the rain line and contains the same vegetation community and similar slough features. Six other wetland units are located south of the rail line; four (polygon 20, 21, 23, and 24) are Oak Mineral Deciduous Swamp (SWD1) and two (polygon 31 and 32) are Willow Mineral Deciduous Swamp (SWD4-1). Two wetland units (polygon 3 and 4) are located along the western edge of the study area and are Pin Oak Mineral Deciduous Swamp (SWD1-3). PSWs are defined as Environmental Protection Areas (EPA) under Niagara Region's environmental policies.

Based on the proposed land use plan, the majority of the PSW features will be protected. Encroachment of the PSW boundary would occur in two polygons (27 and 32) where areas along their northern edges are proposed for removal to accommodate an arterial road that will connect with Ramsey Road to the east. The result is approximately 0.7 ha of removal in polygon 27, and approximately 0.6 ha in polygon 32.

Development and associated activities that occur on lands adjacent to the PSW areas may result in indirect impacts that result from changes to underlying functions, and proximity effects such as disturbance along edges and encroachment by humans. These may include:

- Alterations to water balance;
- Introduction of non-native invasive species;
- Avoidance behaviour of wildlife;
- Reduction of interior forest habitat;
- Increased sedimentation and erosion;
- Reduction in water quality;
- Noise, light, and chemical pollution;
- Loss of habitat;

- Loss of significant wildlife habitat (SWH);
- Loss of provincially, regionally and/or locally rare species; and
- Anthropogenic disturbances and encroachment

Environmental Management Recommendations

Potential impacts to the PSW features can largely be mitigated through developing outside of the PSW and implementation of a sufficient buffer between the PSW and all development activities. The volume and quality of water entering the wetland units should remain the same as pre-development conditions, and/or be improved. Use of Low Impact Development (LID) best management practices such as permeable pavement, bioswales in addition to stormwater management facilities, can aid in achieving no impact to water balance, and/or water quality (and will be addressed through the Storm Water Management Report being prepared by Amec Foster Wheeler). Best management practices for sediment and erosion control should also be implemented to reduce the potential for sediment and erosion impacts to the PSW features. Revegetation of any cleared area with appropriate native species will help to reduce erosion and limit the introduction of non-native invasive species.

Buffers between the PSW and residential/commercial development areas are generally recommended to be 30m; the spatial separation between protected features and built environment will help to reduce the risk of impacts related to encroachment, and disturbance to hydrological functions. This distance is also the recommended setback to preserve the vernal pool envelope that is the most critical wildlife foraging habitat, as well as the area that supports the hydrologic functions for maintaining water balance (Calhoun and Klemens, 2002). Reduced buffers of 15m are recommended for locations where the proposed office business blocks (Blocks 12 and 13, Map 3) have been sited; the built form of these areas is expected to provide a lower coverage of impermeable surface and allow for open design elements (e.g. horticultural plantings) that can be placed adjacent to buffer areas. To further mitigate the potential for impacts to PSW/EPA features adjacent to these blocks, a 15m interface zone between the proposed development and the buffer area is proposed.

Water balance and water quality for protected wetlands will be maintained to pre-development conditions. This may be achieved through LID best management practices including, but not limited to, limiting impermeable surfaces in developed areas, implementing sediment and erosion control measures, and revegetation of cleared area with native species (CVC, 2012). The recommended buffer areas may also provide opportunities for managing potential disturbances to water balance and water quality. For example, swale systems within the buffers could be designed to ensure that surface flows are managed to address water balance concerns. Additionally, vegetated buffers can reduce the risk of contaminants such as heavy metals, salt, and pesticides reaching vernal pools (Boone and Pauli, 2008).

Ensuring that the quality of vernal ponds in the protected slough forest is maintained is critical to the long-term sustainability of the protected system. Many plants and wildlife that are present within the slough forest are entirely dependent on the vernal pool features (e.g. plants and wildlife that are only found in the vernal ponds) or seasonally dependent on the pools for critical life stages (e.g. breeding habitat for frogs, toads, and salamanders). Three zones of management are suggested as a BMP to improve the potential for maintaining high quality vernal pool systems in urbanizing environments (Calhoun and Klemens, 2002; Windmiller and Calhoun 2008): the pond depression, the vernal pool envelope (adjacent 30m), and the critical terrestrial habitat zone (30m to 230m). The first and second zones are the most critical for protecting key aspects of vernal pool ecology and are thus

recommended as zones with no development. The third zone has more flexibility, suggesting that when development is less than 25% of the area, impacts to vernal pools will be low. Where this is not feasible, additional design considerations are recommended that would reduce the risk to wildlife such as amphibians, can be applied to the development block to mitigate impacts. For the proposed project, the 30m buffers, and the 15m buffers with additional 15m interface design requirements will help to ensure that vernal pools and their adjacent 30m envelopes are protected. The 230m critical terrestrial habitat zone will be protected for vernal pools that are located in the interior areas of the PSW/EPA. For other ponds located near the edge of the protected wetlands, the 230m management zone extends onto the adjacent development blocks. Where this is the case, best management practices for storm water management should be implemented to ensure runoff from urban areas does not flow directly into pond habitats. Additional considerations should be incorporated into block designs within the 230m area that facilitate wildlife movement (e.g. use of culverts, eco-passages, and/or curb designs that allow small wildlife to negotiate road crossings and other barriers).

Indirect mitigation approaches that will help to minimize impacts includes education of residents on the types of vegetation and wildlife present within the protected wetlands areas, its ecology and sensitivities; approaches that involves information brochures and nature interpretation boards could be used to reduce encroachment and other indirect impacts that often occur when natural areas become more accessible to humans.

5.1.2. WATERCOURSES AND ASSOCIATED VALLEY AND FLOODPLAIN

Potential Impacts

Watercourse 1 (Map 2) is a 4 to 5 m wide low gradient channel that is likely a dug ditch that has since partially naturalized. In 2015 it contained shallow water along its length in the spring, but was dry when examined on October 6, except at its downstream end where it is backwatered from the Welland River, and at the culvert mouth which is its upstream source. Instream aquatic habitat is generally poor due to the complete lack of coarse substrates and lack of water. The lack of coarse substrates limit the extent to which fish from the Welland River will utilize this watercourse for spawning or feeding, however, 4 Emerald Shiners were captured at its upstream end, and some unidentified small-bodied fish species were observed at about the channel mid-point during one site visit. Five common species of fish were captured downstream of the subject property near the Welland River. No large-bodied fish species were observed, though there seemed to be some potential for Northern Pike spawning in the extreme downstream end of the watercourse. Watercourse 1 is not expected to be affected by the proposed land use plan.

Watercourse 2 (Map 2) represents the most natural permanently flowing watercourse within the subject property. However, instream habitat is generally poor due to the almost complete lack of coarse substrates. The lack of coarse substrates also limit the extent to which fish from the Welland River will utilize this watercourse for spawning or feeding. No large-bodied fish species were observed, including during the Northern Pike and White Sucker spawning period. Six species of common fish have been captured here, including young-of-the-year White Sucker. It is unknown if the White Sucker were produced in this watercourses, or have moved into the watercourses from the Welland River.

Watercourse 2 is located in the eastern most portion of the study area, where it flows south to the Welland River through an industrial area and valleyland (Map 2). The valleylands, including the

watercourse and floodplain, are policy triggers in the Provincial Policy Statement and Conservation Authorities Act (Government of Ontario, 2013), while the watercourse is also protected under the Fisheries Act (1985).

The industrial area and a northern portion of the valley, including Watercourse 2 and PSW, fall within block B12 (Map 3). A road bordering Blocks B08, B09, and B13 also encroaches on the western edge of the valleylands, and may result in indirect impacts to several small portions of the PSW and adjacent valleylands that support the watercourse function (Map 3).

Watercourse 3 (i.e. the Contrail Drain) is a completely artificial trapezoidal armoured drainage feature that bisects, but is not part of, the subject property. Large-bodied fishes cannot access this channel due to the interstitial flow through the rip-rap substrate and dense beds of invasive Common Reed, plus the debris barriers near its downstream end. Brook Stickleback, in low numbers, has been the only fish species captured here. Based upon the above, this watercourse is an artificial drainage feature and should be classed as MNRF Type 3 fish habitat.

Watercourses 4 and 5 (Map 2) have ephemeral flow, and do not appear to have a direct surface connection to the power canal. Watercourse 4 is seasonally wet on the subject property, and since it is within the retained wetland area (polygon 5) it will not be impacted by the proposed development. Based upon the above, this watercourse is classed as MNRF Type 2 fish habitat, requiring a minimum buffer of 15 m (Map 2).

Watercourse 5 (Map 2) is poorly defined on the subject property, is dry most of the time, and is isolated from downstream habitats, and is therefore not considered fish habitat. Watercourse 5 will be eliminated by the proposed development, and its drainage function will be incorporated into the general future site drainage.

With no apparent fish communities in either Watercourse 4 or 5, and no potential for fish to move into these watercourses from downstream habitat, they would not be considered fish habitat under the Fisheries Act.

Environmental Management Recommendations

Based upon the characterization of Watercourse 1, it is classed as MNRF Type 2 fish habitat, requiring a minimum buffer of 15 m.

Based upon the characteristics of Watercourse 2, it is classed as MNRF Type 2 fish habitat, requiring a minimum buffer of 15 m. As the watercourse is surrounded by adjacent wetland features with a 15m buffer, the watercourse buffer requirements have been met.

Where watercourse crossings are necessary, the location(s) that minimize potential impacts should be assessed based on existing habitat condition, associated floodplain, and associated vegetation communities in the adjacent valley land. Where impacts are unavoidable, mitigation and/or compensation strategies could be developed in consultation with the NPCA, and submitted to the Department of Fisheries and Oceans for permitting if fish or fish habitat are impacted.

Opportunities for improvements exist for Watercourses 1 and 2 (WC1 and WC2, Map 2). For Watercourse 1, reconstruction of the channel to be narrower (and thus deeper), as well as the addition of coarse substrate, may encourage utilization by spring spawning fishes. For Watercourse 2, the upper portion of the watercourse has a 74 m long section of buried channel, plus a 162 m section of straightened channel. Both could be rehabilitated to a natural channel form, thus increasing the quality and quantity of fish habitat. Additionally, coarse substrate could be added to portions of the watercourse to diversify general instream habitat and provide spawning substrate for potential resident and migratory fishes.

5.1.3. ENDANGERED/THREATENED SPECIES AT RISK AND ASSOCIATED HABITAT

Potential Impacts

Three species that are designated as endangered or threatened were observed within the study area: Acadian Flycatcher (*Empidonax virescens*) (Endangered), Barn Swallow (*Hirundo rustica*) (Threatened), and Chimney Swift (*Chaetura pelagica*). Acadian Flycatcher was observed during the initial breeding bird survey, but not detected on subsequent visits. Chimney Swift was observed foraging over the property; no nesting structures are present.

One Barn Swallow (*Hirundo rustica*) was observed foraging over the Conrail Drain during breeding bird surveys in 2015. Habitat suitability for Barn Swallow breeding within the study is considered to be low and no evidence of breeding activity was detected during field surveys. Potential nesting habitat exists within and adjacent to the secondary plan area, particularly in culverts that are present along the Conrail Drain and other old bridge structures that are present in the area.

Breeding habitat for Barn Swallow is not expected to be lost during site development. Although nesting was not observed during surveys in 2015, prior to any development nest surveys should be conducted to determine if nesting is occurring in or near culverts and bridges that are located on the property. Some foraging habitat for Barn Swallows may be lost and local insect populations may be reduced as a result of the proposed development; this may reduce foraging habitat occupancy by Barn Swallows within the study area. The nearby Welland and Niagara rivers, along with adjacent riparian wetlands are expected to continue to serve as the primary local foraging habitat for Barn Swallows.

Environmental Management Recommendations

As habitat for endangered or threatened SAR was not observed in the study area, mitigation or compensation measures are not currently required. Should active nests for Barn Swallow be found near the time of development and be impacted, the regulations for Barn Swallow under the Endangered Species Act allow for nest habitat compensation that achieves overall benefit through constructing nesting structures that can be placed in nearby suitable habitat (e.g. near the Welland River). The Welland Power Canal, Welland River and adjacent riparian wetlands are expected to provide the majority of local insect production for open country insectivores such as Barn Swallow. The impact to highly enclosed swamp habitat within the study area is not expected to contribute to the loss of breeding or foraging habitat for Barn Swallow.

5.1.4. HABITAT FOR PROVINCIALLY RARE SPECIES AND/OR SPECIES OF SPECIAL CONCERN

Potential Impacts

Two provincially rare plant species were identified within the study area during field site surveys in 2015; Schreber's Aster (*Eurybia schreberi*) and Honey Locust (*Gleditsia triacanthos*). These species both occur within the Provincially Significant Wetlands (PSW); Schreber's Aster within the mature central deciduous swamp and Honey Locust along the floodplain of Watercourse 2 (Map 2). Based on the proposed site plan, no development is to occur in or near the known locations of these species. However, Schreber's Aster is likely to occur in upland pockets throughout the PSW, and therefore may be impacted where intrusions into the PSW and adjacent mature forests are proposed. Two additional rare species are known from the study area or nearby similar habitats; Black Gum (*Nyssa sylvatica*) and Round-leaved Greenbrier (*Smilax rotundifolia*). These species are also most likely to occur within the PSW areas and mature deciduous forest and swamps.

Additionally, Black Gum is known from historical records to occur within the secondary plan study area. Targeted surveys for Black Gum were conducted during 2015 in areas where this species was putatively documented during previous studies of the site (i.e. associated with ELC polygons 3, 4, and 5); no individuals were observed. Although D&A have not yet confirmed the presence of this species in the study area, it is likely present, albeit in low numbers. Habitat for Black Gum in Ontario is typically associated with low wet areas (Government of Ontario, 2014; Burns and Honkala, 1990). Areas outside of the PSW/EPA wetlands that that have appropriate habitat for this species include polygons 12, 29, and 46.

Two bird species designated as Special Concern in Ontario were identified within the study area during 2015: Eastern Wood-Pewee and Wood Thrush. Both of these species utilize wooded habitats including upland forests and wetland swamps. Both species occur readily within the study area.

Wood Thrush typically prefers moist, mature deciduous and mixed forests that have tall trees and well-developed understory layers (Government of Ontario, 2015b; COSEWIC, 2012). These birds have an estimated territory of 2ha in Ontario (Freemark and Merriam, 1986), and prefer to nest in Sugar Maple or American Beech stands of moderate density where soils are mesic or xeric (Ouellet, 1974). Nesting sites tend to be in lowland areas with trees greater than 16m tall with a closed canopy of various deciduous tree species, a moderate subcanopy and a relatively open forest floor with moist soil and decaying leaf litter for foraging (Robbins et al., 1989; Evans et al., 2011). While these birds prefer to nest within large forests, they can also thrive in highly fragmented woodlands, but are less successful in landscapes fragmented by agriculture and wide linear corridors (Rich et al., 1994; Weinberg and Roth, 1998; Evans et al., 2011). In southern Ontario, the effect of the size of forested areas, ranging in size from 3-50ha, seems to be independent of the amount of adjacent housing surrounding the forest patches on the number of Wood Thrush (Friesen et al., 1995). For example, Wood Thrush breeding populations in a landscape only 14% forested by patches 3-140ha in size were found to be self-sustaining (Friesen et al., 1999). In addition, studies have confirmed that breeding densities of Wood Thrush are lower in forest patches within residential areas than in rural forests with no adjacent housing (Friesen et al 1995).

Eastern Wood-Pewee typically resides along forest edges and clearings within deciduous and mixed forests, often dominated by sugar maple, elm, and oak (COSEWIC 2013; Government of Ontario 2015a; Graber et al. 1974). These birds prefer intermediate and mature-aged stands with little understory vegetation, and generally occupy the mid-canopy layer (Government of Ontario 2015a). A study by Falconer (2010) in southern Ontario found that Eastern Wood-Pewee selected habitats with lower tree species diversity, less pines, and lower basal area, demonstrating that they prefer open habitats with less trees to provide them with optimal foraging ability. However, Falconer (2010) found that low-density mature trees greater than 40cm at breast height were found to be important for nesting selection in deciduous woodlands. In addition, many studies have established that Eastern Wood-Pewees may benefit from forest management practices such as selective harvest, as it creates open areas in the canopy which may provide for increased foraging ability (Clark et al. 1983; Wilson et al. 1995; Artman et al. 2001; Campbell et al. 2007; Greenberg et al. 2007; Burke et al. 2011). These birds have also been found to use dead branches as foraging perches, which may be considered another habitat requirement (Via 1970).

In southern Ontario, typical Eastern Wood-Pewee territory is approximately 1.8 ha in size, with no significant difference between deciduous forest and pine plantation habitats (Falconer 2010). Many investigations have determined that while the size of forest patches does not seem to impact habitat selection, forest stands adjacent to residential development including houses and roads tend to be less often used by these birds (Stauffer and Best, 1980; Blake and Karr, 1987; Robbins et al., 1989; Freemark and Collins, 1992; Desrochers et al. 2010; Friesen et al. 1995; Keller and Yahner 2007). For example, Friesen et al. (1995) found that 4ha woodlots without nearby housing supported more Neotropical songbirds on average than did 25ha lots located in urban areas.

Over 95 ha of wooded area will be retained, with polygon 5 being the largest (43 ha) (Map 2). The large area of protected woodland is expected to continue to provide suitable habitat for both bird species, and will maintain viable populations during post-development conditions. Where cultural woodland areas are developed, individual Wood Thrush and Eastern Wood-Pewee that are currently using these areas for nesting and foraging will be displaced. Of the two species, Wood Thrush is more likely to be impacted as the species tends to be susceptible to edge effects (i.e. at the boundary between forest and open areas) and it also prefers understory conditions with a higher density of shrubs and small trees. Therefore, the increase in edge habitat that is expected as a result of development is anticipated to result in a reduced local abundance of these species, but the local populations are expected to persist given the amount of wooded habitat that will be preserved.

Environmental Management Recommendations

Where disturbances to provincially rare plants, such as Schreber's Aster, are expected to occur, impacts can be mitigated through appropriate compensation actions such as salvaging and transplanting individual plants and seed collection. It is recommended that the detailed aspects of such a compensation plan be developed and submitted during the subdivision plan application process. Locations where compensation plants may be likely for Schreber's Aster are identified on Map 4.

Salvaging and transplanting mature tree species such as Honey Locust and Black Gum is not feasible. Therefore, where individuals of these species are present, it is recommended that they be protected and incorporated into the subdivision block design where feasible. Tree savings plans should be developed and submitted during the subdivision plan application process for these species if they are found in areas that are proposed for development.

Compensation and/or enhancement plans to address impacts related to proposed development where Wood Thrush and/or Eastern Wood-Pewee habitat is present can be prepared. Enhancement of the understory communities in the protected PSW/ESA areas could be achieved through forest woodland management that emphasizes establishment of understory shrub habitats (for nesting), where the existing understory is either too open, or too dense. Addressing loss to Eastern Wood-Pewee habitat will require a longer-term solution, and should be considered along with tree compensation that is required under the Region's Tree and Forest Conservation Bylaw (By-law 30-2008). For both species, however, the proposed land-use plan is not expected to result in their loss from the site. The proposed compensation/enhancement recommendations will help address anticipated reductions in abundance.

In addition to species of Special Concern and provincially rare species, where regionally rare species are present outside of the protected wetland areas, compensation plans should be prepared in a similar manner. Similar to other rare plants, rare regional species can be salvaged and replanted in appropriate habitat that will be protected on-site.

5.1.5. OLD GROWTH/MATURE FOREST AND MAST TREE HABITAT

Potential Impacts

The bulk of old growth/mature forest and mast tree habitat will be protected within the PSW lands. Excellent specimens of large mature mast trees on the property include, but are not limited to, Red Oak, Pin Oak, Bur Oak, and Shagbark Hickory; many individual trees being over 50cm in diameter at breast height, and some over 100cm. Old-growth forest areas and mature trees are also present outside of the PSW, including individual and small stands of trees in ELC polygons 12, 13, 29, 30, and 46 (Map 2).

The proposed land use plan includes development areas that overlap with locations where individual and/or patches of old growth and/or mature mast trees are present. Removal of these trees would result in loss of important functional elements of the natural heritage system including but not limited to wildlife habitat such as nesting habitat, roosting habitat, cavity habitat, seed crops for food, and seed for re-colonization of young trees.

Environmental Management Recommendations

To identify old-growth habitat, mature trees, and mast trees that should be considered for protection, a tree saving plan should be conducted for the proposed development blocks that overlap with the ELC polygons where old-growth, mature trees, and/or mast trees are present; blocks where scoped tree savings plans are recommended for these areas and trees are identified on Map 4.

Recommendations for tree protection and compensation should follow the Niagara Region's Tree and Forest Conservation By-law.

5.1.6. SHRUB AND EARLY SUCCESSIONAL BIRD HABITAT

Potential Impacts

The presence of various bird species in the early succession vegetation communities on the property are consistent with indicators of shrub and early successional habitat defined as 'Significant Wildlife Habitat' (SWH) in Ecoregion 7E in Ontario. Several early successional indicator bird species are present (Brown Thrasher, Black-billed Cuckoo, and Field Sparrow) within a 15.7 ha block of cultural thicket (Polygon 16). The removal of this area will result in displacement of the various bird species and other wildlife that utilize this habitat type.

Vegetation present in this type of habitat is typically quite resilient to impacts, and can become reestablished in disturbed areas (i.e. the vegetation present tend to be the first to colonize disturbed areas, and are therefore early successional). The characteristics of plants that are considered early successional makes them good candidates for re-establishment in buffers, and other restoration or enhancement areas where lands are currently disturbed, and/or will be disturbed during development.

Environmental Management Recommendations

To mitigate impacts associated with loss of this habitat, early succession shrubs, grasses, and wildflowers that are present in this habitat type can be incorporated into planting plans for buffers, interface areas (for example on blocks B12 and B13), and other open areas where planting plans are warranted. Additional opportunities are present along non-developed portions of the Conrail Drain, where planting early successional vegetation along the slopes will also reduce erosion risks, and help increase the linkage function of the Conrail Drain for wildlife. Details regarding the loss of early successional habitat and plant species can be addressed as part of a compensation plan to be submitted with plans of subdivision. Blocks where compensation for early successional habitat are recommended are identified in Map 4.

5.1.7. BAT MATERNITY ROOST HABITAT

Potential Impacts

Bat maternity colonies are poorly understood in Ontario and difficult to locate. They are typically associated with mature and over-mature forests containing suitable dead tree cavities, rock crevices and/or abandoned structures. As such, bat maternity colonies may be present in the mature woodland, swamp and forest habitat of the study area. In particular, as indicated by snag density surveys, potentially high suitability habitat occurs north of the Conrail Drain adjacent to the large northern PSW block (i.e. Polygons 1, 6 and 46).

These maternity colonies, if present, may be negatively impacted by development through direct habitat removal (woodland clearing), decreased insect availability (vegetation clearing and site filling) and increased anthropogenic encroachment into suitable habitat (i.e. PSW blocks).

Results from the cavity tree density surveys across the property indicate that most of the wooded areas are likely to contain standing dead trees that may provide suitable roosting habitat. As all of the proposed development blocks contain woodland areas, additional follow-up is required to determine whether or not cavity trees are being used by bats, and in particular bats that are designated as SAR.

Environmental Management Recommendations

Direction on recommended follow-up surveys for bat roost habitat was provided by the Guelph District MNRF (personal communication, Michelle Martin). Following adoption of the secondary plan, acoustic surveys for bats should be targeted in wooded areas to determine if SAR bats are present. Currently, the recommendations provided in this EIS are that acoustic surveys should be conducted in the vicinity of the best cavity trees within each proposed land use block; the scope of this recommendation may be updated in discussion with MNRF upon their review of the proposed secondary plan land use, and the results from the cavity tree density surveys. In cases where the land use plan does impact cavity trees that provide roost habitat for SAR bats, options regarding an overall benefit permit will need to be discussed and approved by the MNRF. Screening for SAR bats and development of overall benefit plans (if required) should be prepared and submitted prior to submission of plans of subdivision.

5.1.8. WOODLAND BREEDING AMPHIBIAN HABITAT

Potential Impacts

The vernal pool habitats within the slough forest complex provide excellent breeding habitat for woodland amphibians. Almost all of the pools within the PSW/EPA areas will be protected; there are some pools in the PSW/EPA areas that will be impacted by the arterial alignment that is proposed along the north edge of polygons 27 and 32 (Map 2).

Woodland breeding habitat is also present in the non-PSW wetlands areas on the property, and supports species such as Spring Peeper, Western Chorus Frog, Northern Leopard Frog, Gray Treefrog, Wood Frog, and American Toad. The extent of non-PSW wetland area proposed for development has been quantified (Table 12), but not the specific area of pool habitat that is present within these wetland areas. Where compensation plans are recommended to address impacts to amphibian habitat, site specific investigations should document the extent of pool areas that will be lost.

Environmental Management Recommendations

Disturbances to existing ponds in the PSW/EPA where roads are proposed should be minimized. Pools should be avoided where possible; where pools cannot be avoided, the foot print of disturbance should be kept to minimum. Timing of pre-grading and other construction activities can also minimize impacts if activities are done outside of key breeding periods (e.g. March to July). Standard best management practices for reducing the potential for erosion and sedimentation should be implemented.

Where amphibian habitat is present in areas of non-PSWs that are proposed for development, it is recommended that compensation plans be developed to address impacts. An amphibian habitat compensation plan should be prepared for the proposed blocks where impacts to amphibian habitat are anticipated (e.g. see C2 designations on Map 4). Details regarding the loss of amphibian habitat can be developed and submitted as part of a compensation plan to be submitted with plans of subdivision.

Whether wetland creation is a viable approach to compensate for impacts to amphibian habitat resulting from urban development is largely dictated by the surrounding landscape context. Many studies note that because of the limited dispersal ability of amphibians, larger wetlands located within suitable landscapes (i.e. with surrounding forest cover) tend to attract more dispersers than smaller ones in less suitable landscapes (Lehtinen and Galatowisch, 2001; Holzer, 2014).

Some studies of restored wetlands have shown that certain amphibians will begin to successfully use created wetlands rather quickly, often within several months of creation (Lehtinen and Galatowisch 2001). In a study of 12 created wetlands, Lehtinen and Galatowisch (2001) found that of 12 species found throughout reference sites and created wetlands, 8 were present in the latter within the first few months and many of these sites contained successful breeding populations. Another study by Brown et al. (2011) found that the large majority of created wetlands were rapidly colonized by American Toad, Bull Frog, Wood Frog and Spotted Salamanders. Additionally, Pechmann et al (2001) found that Spring Peepers colonized created ponds within a year, and Mole salamanders and Eastern Newts colonized within three years and persisted through the following four years of the study. In another example, Petranka et al. (2003) confirmed that seven amphibian species bred in 10 newly constructed wetlands within the first year (wetlands were created in autumn-winter and amphibians began breeding in February) and species richness reached equilibrium within two years. These authors also found that the annual turnover rate was approximately 25%, and that the created wetlands in their study supported more species than the reference ponds (Petranka et al. 2003). Their data also suggest that faunal monitoring for a period of 2-3 years is sufficient to classify species that will use the ponds for approximately the first decade post-construction (Petranka et al. 2003).

Compensation plans that are developed for the loss of amphibian breeding habitat should identify opportunities to create new vernal pools within the PSW/EPA areas, buffers, and/or other locations within the study area that are amenable. Although explicit areas within these features have not been identified in this EIS for restoration, enhancement, and/or compensation, opportunities may exist in the following locations:

- The northwest areas of polygon 5 (Map 2) where historical disturbances have altered the characteristics of the vernal pool system, and the mineral oak swamp is younger than in adjacent areas
- The south and central areas of polygon 27, where bermed areas and trails have impacted the characteristics of the vernal pool system
- Areas surrounding polygon 20 (including recommended buffers) that will also facilitate linkage, and can be linked to storm water management
- Areas adjacent to polygons 21, 23, and 24, including the recommended buffers and areas that are not practical for development

The proposed areas for compensation are only recommendations at this point; specific plans should be developed as part of the compensation plans that are recommended for blocks where the proposed development is anticipated to result in losses to amphibian breeding habitat.

5.1.9. REPTILE HIBERNACULA

Potential Impacts

Targeted surveys for reptile hibernacula were not required as part of the Terms of Reference. The number of incidental observations of snakes (Eastern Gartersnake) suggests that hibernacula are present within the study area. Where these features are present within the PSW/EPA areas they will be protected. However, there are likely other areas outside of the PSW/EPA that support reptile hibernacula. Given the difficulty in detecting such features, it is recommended that screening occur prior to pre-grading and other site preparation activities, and that construction crews be educated on impact avoidance to these species. Management should focus on rescuing and relocating snakes, should they be found during this period.

Environmental Management Recommendations

Management for potential impacts to snakes and snake hibernacula should focus on developing contingency plans that allow screening for, salvaging, and translocating snakes prior to, and during pre-grading and site preparation activities. Prior to pre-grading and site preparation activities, it is recommended that a qualified ecologist screen the proposed construction areas for reptile hibernacula, and individual snakes and turtles. Should hibernacula be observed, a management strategy should be developed to compensate for the loss of the features. Should individual snakes or turtles be observed, they should be collected and translocated to the protected PSW/EPA areas. The ability to salvage and translocate snakes and other reptiles will require securing various wildlife handling permits; this should be done well in advance of commencing pre-grading and other site preparation activities.

5.1.10. DEER WINTER CONGREGATION AREAS

Potential Impacts

Stratum II deer wintering area is identified across much of the study area. The removal of cultural woodlands across the property will reduced the extent of this habitat. Large areas however, will be preserved in the PSW/EPA areas and respective buffers. Additionally, linkage opportunities that facilitate deer movement will continue to be present on the property (see linkage areas on Map 4).

Environmental Management Recommendations

Environmental management recommendations are not required for addressing impacts to deer winter congregation areas for this site.

5.1.11. RARE VEGETATION COMMUNITIES

Potential Impacts

Three provincially rare vegetation community types were observed within the study area during field surveys in 2015:

- Pin Oak Mineral Deciduous Swamp (SWD1-3)
- Buttonbush Mineral Thicket Swamp (SWT2-4)
- Gray Dogwood Mineral Thicket Swamp (SWT2-9)

The Pin Oak Mineral Deciduous Swamp occurs primarily within the PSW/EPA areas, and will be protected. Approximately 3.9 ha of this community occurs outside the PSW within blocks A06 and B13 (Map 3), and will be directly impacted as a result. The majority of Buttonbush Mineral Thicket Swamps occurred as inclusions within the PSW, and will therefore be protected. The Gray Dogwood Mineral Thicket Swamps occurred as inclusions within both PSW and non-PSW wetlands. Where this community occurs within the PSW, they will be protected. Outside of the PSW, approximately 0.16 ha of this community type will be impacted based on the proposed development in block A06 (Map 3).

Environmental Management Recommendations

The Pin Oak Mineral Deciduous Swamp and Buttonbush Mineral Thicket Swamp communities are primarily associated with the PSW and will therefore be protected. Where these communities occur outside of protected areas (e.g. polygon 12, Map 2), a salvaging and relocation plan should be developed in collaboration with NPCA for provincially or regionally rare plant species associated with this. Relocation should target areas that will be protected, either within the PSW as enhancement and/or in other areas that are targeted for on-site compensation/restoration.

The Gray Dogwood Mineral Thicket Swamp communities are associated with non-PSW wetlands areas (example as inclusions in polygon 6, Map 2). Where this type of habitat is impacted, the extent of loss can be documented; the extent of loss will be incorporated into the buffer planting plans and on-site enhancement/compensation plans, with attempts to balance impacts. Additionally, shrub species such as Gray Dogwood and Button Bush can be incorporated into planting plans associated with SWM ponds, and revegetating enhancement areas within the Conrail Drain.

5.1.12. WETLANDS (NON-PSW)

Potential Impacts

The proposed land use plan identifies 14 development blocks and parts of the proposed road network that will encroach on nine non-PSW wetland features (Map 3). Wetland types that are proposed for development include Oak Mineral Deciduous Swamp (SWD1), Willow Mineral Deciduous Swamp (SWD4-1), and Green Ash Mineral Deciduous Swamp (SWD2-2). The total area proposed for development is approximately 24 ha. Loss of the various wetland features and functions are documented in other sections (e.g. amphibian habitat, bat roost habitat, habitat for Wood Thrush,

habitat for Eastern Wood-Pewee, etc). Although the loss of wetland area will reduce the availability of habitat for the various plants and wildlife that are present, negative impacts can be avoided and/or minimized through the various mitigation recommendations, and requirements to develop compensation plans.

Environmental Management Recommendations

The Niagara Peninsula Conservation Authority (NPCA) is authorized under Section 28 of the Conservation Authorities Act to implement and enforce the Regulation of Development, Interference with Wetlands and Alterations to Shorelines and Watercourses (Ontario Regulation 155/06). Relating to wetlands, permission to develop in wetlands can be granted under section 3 of Ontario Regulation 155/06; additionally, permission to develop in wetlands can be given with or without conditions.

As outlined in the various Environmental Management Recommendation sections above, where features and functions of wetlands are anticipated to be impacted, direction has been provided to complete additional site specific inventories (example for old-growth, mature, and/or mast trees), and compensation plans that outline specific strategies that will allow impacts to be avoided and/or mitigated. These plans have not been provided in this EIS, as the level of detail required is not within the scope for the secondary plan EIS. Instead, the detailed compensation plans can be scoped as a condition of approval when draft plans of subdivision are submitted. Compensation plans could take the form of various approaches, including but not limited to enhancement of existing on-site PSW areas and buffers, off-site compensation and enhancement (e.g. within the adjacent patches of the Niagara Slough Forest Wetland Complex Provincially Significant Wetland),

5.1.13. LINKAGES

Potential Impacts

Under existing conditions, natural features in the study area are well connected; the only intervening anthropogenic lands that may cause some barriers to wildlife movement are the Dorchester Road, Oldfield Road, Chippawa Parkway, the Conrail Drain, the existing rail line, the Thundering Waters golf course, and existing industrial lands. The proposed land-use plan will reduce the overall connectivity of the system, but will maintain linkage areas that facilitate connections between the core wetland areas (polygons 3, 4, 5, 27, 31, and 32).

Environmental Management Recommendations

To ensure core wetland areas are connected to onsite and offsite natural features, four linkage areas have been identified (Map 4). The first linkage area (L1) is located between the two largest PSW features (polygons 5 and 27). The proposed location connects the two wetland blocks with a 50m wide corridor in the vicinity of where the spur line to the Chemtrade property crosses the Conrail Drain; following the spur line would result in a shared 50m corridor between GR (CAN) Investment Co., Ltd lands and the adjacent golf course lands. The remaining linkage areas (L2 – L6) are provided primarily as locations where eco-passages should be incorporated into road designs. The second and third linkage areas (L2 and L3) are intended to maintain connectivity between polygon 31 (along the watercourse corridor), polygon 27, and polygon 35. The fourth linkage area (L4) recommendation is

located where a 30m buffer for polygon 3 and a proposed Storm Water Management block interface with Dorchester Road. The resulting linkage interface with Dorchester Road is approximately 80m, and is intended to provide connectivity to the wooded features along the banks of the Power Canal. The fifth and sixth linkage areas (L5 and L6) are intended to provide connectivity for small wildlife through the centre of the residential development. The linkage areas connect the cluster of polygons 21, 23, and 26 with polygon 25 to the north (L5), and to the Welland River to the south (L6). Specific design recommendations for the linkage corridors and eco-passages can be determined during a more advanced stage of planning.

5.2. OPPORTUNITIES FOR ENHANCEMENT AND COMPENSATION

Opportunities exist on the property to improve degraded areas that exist within protected areas, and to improve and/or establish new naturalized areas. This will help to offset reductions in green space that will occur within the developed areas of the property. The main objective will be consolidating the key areas, and maintaining/creating linkages among them. Opportunities include:

- Enhancement of degraded provincially significant wetland areas through recreating vernal pond habitats, removal of invasive species, and establishment of native understory species (in both wetland upland areas).
- Revegetation of areas that are currently anthropogenic/cultural that will not be incorporated into the developed area.
- Wetland creation in identified compensation areas to offset any loss of pond and wetland habitats and functions that are removed as part of the development lands.
- Revegetation of Stormwater Management Facilities and the Conrail Drain with a focus on early successional shrub habitats.
- Use of native plant species to revegetate of natural and anthropogenic corridors (created linkages).

5.3. SPECIAL CONSIDERATION AREAS

A number of existing human-made and natural elements on the subject property provide opportunities for maintaining and/or enhancing the ecological features and functions following development. These include, but are not limited to the rail corridor, the Conrail Drain, and individual trees.

- Rail Corridor identify opportunities for natural heritage enhancements along the rail corridor setbacks; identify opportunities for eco-passages under the rail to facilitate long-term linkage opportunities for amphibians and other small wildlife
- Conrail Drain identify opportunities for natural heritage enhancement within and along the Conrail Drain
- Individual Trees large mature trees scattered across the site; where grading permits they should be identified during detailed site planning, and preserved if possible.

5.4. INTEGRATION WITH BUILT FORM

The built form of the proposed secondary plan area will include land-uses that support and/or complement feature and functions of the core and linkage areas. For example, Storm Water Management facilities, parks, and trail areas can provide opportunities for restoring native plant communities, creating habitat for wildlife, and other ecological functions. Recommendations include, but are not limited to:

- Buffers use of buffers to ensure hydrological function of key features is protected and/or enhanced; allowance for trails within buffer areas to direct pedestrian movement and avoid encroachment into key features; allowance for variable width buffers depending on adjacent land uses and trail alignments
- Grading identify opportunities to direct clean runoff into and/or away from the protected NHS to ensure local hydrologic conditions of vernal pools and ponds are not impacted; and identify opportunities to redirect clean runoff into vernal pool and other pond restoration areas
- Encroachment Management ensure edge of NHS is demarcated using interpretative signs and fencing where necessary; manage to prevent hazards and strengthen edge characteristics
- Storm Water Management identify opportunities for natural heritage enhancements within SWM blocks
- Trails to the extent feasible, identify trail opportunities outside of the NHS; where entering the NHS, avoid core areas within the core features (i.e. existing vernal pools, most interior areas, mature old-growth areas); make use of dead-end trails; use boardwalks where feasible to avoid impacts to wetlands and compaction of forest floor
- Park Blocks identify natural heritage enhancement opportunities within park blocks;
- Road Crossing Designs where road crossings bi-sect corridor areas between core features, identify location and type of eco-passages that will facilitate movement of amphibians and other small wildlife
- Watercourse Crossing Designs where watercourse crossings are proposed, ensure ecological linkage for wildlife is incorporated into design considerations

5.5. IMPLEMENTATION AND PERMITTING CONSIDERATIONS

Consideration of factors that reduce impacts during pre-development, construction, and post development phases will help with the successful implementation and long-term sustainability of the proposed NHS. Recommendations that are provided below outline considerations related to timing of disturbances, use of an adaptive management framework, and use of on-site plant materials for rehabilitation and restoration of degraded core areas, where compensation areas are identified, and within enhancement areas on built form land-uses:

- Avoid and/or minimize disturbance in and adjacent to defined NHS areas (particularly core features)
- Time development to avoid key life-history periods for wildlife (e.g. spring breeding of amphibians and nesting for migratory birds) and when soils on the site are saturated (e.g. following the spring melt)

- Initiate natural heritage enhancement and compensation works prior to development, and/or in-step with development phasing to ensure proposed enhancement and compensation projects are successful
- Adaptive management and adjustments during detailed design to avoid significant species and/or habitats that have not currently been identified (e.g. snake hibernacula, Species at Risk)
- Use of native plant species to minimize establishment of non-native invasive species
- Salvaging and Relocation: Rescue and relocation of wildlife such as amphibians and turtles, and significant native plants. Many opportunities exist for collecting and using plant and animal species on the property for relocation into existing habitats and/or restored areas on the property. This will ensure that representative plant and wildlife species that exist in the proposed development areas will be retained for use as part of the overall restoration and enhancement strategy. Measures could include:
 - Seed collection to ensure a supply of locally adapted native plants are archived for future restoration/enhancement initiatives
 - Removal, storage, and re-use of soil propagule banks (e.g. top soil from areas with a high concentration of native seeds, rhizomes, bulbs, and other plant reproductive material)
 - Salvaging of other ecosystem elements that can provide habitat structure (e.g. logs, tree stumps, boulders, and large rocks)

6. RECOMMENDATIONS AND CONLCUSIONS

The proposed land use plan results in an approximately even split of lands that will be protected as natural heritage system, and lands that will be developed as residential, commercial, mixed use, and for institutional purposes. The reduction in green space is associated with proposed development on lands that are currently early successional habitat, cultural woodlands, or non-PSW wetlands. Although reductions in area of these different green space types will result in a loss of habitat for some species, the large areas of high quality wetland and buffer areas that will be protected are expected to provide sufficient space and habitat for many species that are currently present, and will allow them to persist under post-development conditions. This, however, is contingent on the recommendation for different types of environmental management plans being followed. and compensation/enhancement plans being prepared to address impacts that are anticipated based on the proposed development blocks.

The follow-up studies and/or compensation/enhancement plans that will require more information about site-specific characteristics and block plan concepts include:

- Acoustic monitoring of bat roost habitats to determine presence of SAR bats; if present, permitting and overall benefit plans will need to be addressed through the MNRF
- Compensation/enhancement plans for impacts to non-PSW wetlands
- Compensation/enhancement plans for impacts amphibian breeding habitat
- Compensation/enhancement plans for impacts to provincially rare species and/or species of special concern (e.g. Schreber's Aster, Eastern Wood-Pewee, or Wood Thrush)
- Compensation/enhancement plans for impacts to rare vegetation habitats
- Compensation/enhancement plans for impacts to early successional breeding bird habitat
- Reptile hibernacula screening and salvaging/translocation plans for early stage of construction such as site preparation and pre-grading activities

The recommendations for these studies are outlined in Map 4 for each specific development block. Where it is more efficient to deal with the recommended studies in a comprehensive manner (e.g. completing and submitting a Tree Savings Plan) for multiple blocks, this should be encouraged.

In summary, the EIS recommends that the secondary plan be accepted with the conditions that are outlined in the environmental management recommendations presented in the impact assessment section (Section 5.1). Upon fulfillment of the conditions, it is expected that the proposed development will have no ecological impact on the populations of plants and wildlife that are currently present on the subject property and subject to Provincial, Regional, and City natural heritage policies.

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8. TABLES

Purpose	Date	Surveyors
Spring ELC and Plant Inventory	May 6th, 2015	Dylan White, Zack Harris
Spring ELC and Plant Inventory	May 8th, 2015	Dylan White, Kristen Beauchamp
Spring ELC and Plant Inventory	May 15th, 2015	Kristen Beauchamp, Zack Harris
Summer ELC and Plant Inventory	June 3rd, 2015	Steve Hill, Zack Harris
Summer ELC, Wetland Delineation,	August 17th,	Dylan White, Zack Harris
Summer Plant Inventory	2015	
Summer ELC and Wetland	August 21, 2015	Dylan White, Zack Harris
Delineation, Summer Plant		
Inventory		
Summer ELC and Wetland	August 26th,	Dylan White, Kristen Beauchamp
Delineation, Summer Plant	2015	
Inventory		
Summer ELC and Wetland	August 27th,	Dylan White, Kristen Beauchamp
Delineation, Summer Plant	2015	
Inventory		
Summer ELC and Wetland	August 28th,	Dylan White, Kristen Beauchamp
Delineation, Summer Plant	2015	
Inventory		
Summer ELC, Wetland Delineation,	September 1st,	Dylan White, Zack Harris, Steve Hill
and Summer Plant Inventory	2015	
Wetland Verification	September 2nd	Dylan White, Zack Harris, Steve Hill, GR (CAN)
	2015	Investments Co. Ltd representatives, Anne Yagi
		(MNRF), Lee-Ann Hamilton (NPCA)
Fall ELC and Plant Inventory	September	Dylan White, Zack Harris
	28th, 2015	
Fall ELC and Plant Inventory	October 5th,	Dylan White, Zack Harris
	2015	
Cavity tree and mast tree surveys	November	Dylan White, Zack Harris
	11th, 2015	

Table 1: ELC, Plant inventory, and PSW delineation site visit summary

Date	Survey	Time	Weather	Surveyors
April 1, 2015	Site Recon.	15:00- 18:30	5°C, clear	Dylan White
April 7, 2015	Trap Set 1	17:00- 20:00	3°C, overcast, light breeze	Dylan White
April 8, 2015	Trap Check 1	06:30- 11:00	5°C, overcast	Kristen Beauchamp, Dylan White, Helen Hemansen (OMNRF)
April 9, 2015	Trap Set 2	17:30- 20:30	11°C, rain, calm	Dylan White
April 10, 205	Trap Check 2	06:15- 11:15	10°C, partly cloudy, light breeze	Kristen Beauchamp, Karl Konze, Dylan White
April 12, 2015	Trap Set 3	18:00- 20:00	9°C, clear	Dylan White
April 13, 2015	Trap Check 3	05:45- 8:45	8°C, clear, sunny	Kristen Beauchamp, Dylan White
April 16, 2015	Trap Set 4	18:00- 20:00	12°C, partly cloudy, breeze	Dylan White
April 17, 2015	Trap Check 4	06:00- 9:30	10°C, partly cloudy	Kristen Beauchamp, Dylan White
April 19, 2015	Trap Set 5	18:00- 20:00	12°C, partly cloudy	Dylan White
April 20, 2015	Trap Check 5 and Trap removal	06:00- 09:30	13°C, partly cloudy	Kristen Beauchamp, Dylan White

Table 2: Salamander trapping summary

Date (2015)	Surveyors	Station ID	Start Time (p.m.)	Noise Index (as per NAAMP)	Wind (Beaufort Scale)	Temperature (°C)	Precipitation
		1	10:15	2	1-2	8-10	None
		2	10:25	2	1-2	8-10	None
		3	10:38	2	1-2	8-10	Light rain
		4	10:43	2	1-2	8-10	Light rain
April	Dylan White	5	10:52	2	1-2	8-10	Light rain
19		6	11:00	2	1-2	8-10	Light rain
		7	11:10	2	1-2	8-10	Light rain
		8	11:20	2	1-2	8-10	Light rain
		9	11:30	2	1-2	8-10	Light rain
		10	11:37	2	1-2	8-10	Light rain
		1	12:15	2-3	0	16.0	Humid
		2	12:05	2-3	0	14.0	Humid
		3	11:55	2-3	0	14.0	Humid
		4	11:45	2-3	0	14.0	Humid
		5	11:37	2-3	0	15.8	Humid
Max	Zack Harris	6	10:28	2-3	1	15.0	Humid
May 28	Kristen Beauchamp	7	11:28	2-3	0	15.8	Humid
20	Kilsten beauchamp	8	11:20	2	1	15.0	Humid
		9	11:10	2	1	15.0	Humid
		10	11:00	2	1	15.0	Humid
		11	9:23	2	0	19.5	None
		12	9:59	2	0	19.5	None
		13	12:21	2	1	16.0	Humid
		1	12:04	3	0	17.8	Humid
		2	11:55	3	0	17.8	Humid
		3	11:46	3	0	17.8	Humid
		4	11:36	3	0	17.8	Humid
June	Zack Harris	5	11:28	3	0	17.8	Humid
24	Kristen Beauchamp	6	10:36	3	0	16.5	Humid
		7	11:18	3	0	16.5	Humid
		8	11:11	2-3	0	16.5	Humid
		9	11:00	2	0	16.5	Humid
		10	10:49	2-3	0	16.5	Humid

Table 3: Nocturnal amphibian survey summary

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			docs/NAAMP%20MA%20Datasheet%202012.pdf) vl calling) e.g. distant traffic, dog barking, 1 car passing) ng (e.g. nearby traffic, 2 – 5 cars passing) (e.g. continuous traffic nearby, 6 – 10 cars passing) g (e.g. continuous traffic passing, construction noise)													
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		13	12:12	2	0	17.5		Humic	1							
				•			Frog call	survey	instructions							
http://v	www.massnaamp.c	org/online_d	ocs/NAAM	/IP%20MA%20Dat	asheet%202	012.pdf)										
Code	Indicator															
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Date	Observer	Time	Weather Conditions	Purpose
May 28, 2015	Karl Konze		Partly cloudy, light west-northwest winds, 16 – 20°C	Breeding bird survey #1 (PCS 1 – 16)
May 29, 2015	Karl Konze	05:19 –	Partly cloudy, light south winds, 15 – 20°C	
June 4, 2015	Karl Konze	05:15 – 09:03	Clear, calm, 11 – 19°C	Breeding bird survey #2 (PCS 1 – 16)
June 5, 2015	Karl Konze	05:20 – 09:32	Partly cloudy, calm, 17 – 21°C	Breeding bird survey #2 (PCS 17 – 32)

Table 4: Breeding bird survey summary

ELC Community Code (Dominant)	ELC Community Description	Number of Polygons	Total Area (ha)	Perce nt
(Dominant)		Folygons	(11d)	
ANTH	Anthropogenic	1	3.37	1.74
CUM1-1	Cultural Meadow	5	9.76	5.04
CUP3-2	White Pine Coniferous Plantation	1	0.33	0.17
CUT1	Mineral Cultural Thicket	1	15.68	8.1
CUT1-4	Gray Dogwood Cultural Thicket	4	7.86	4.06
CUW1	Mineral Cultural Woodland	8	44.78	23.12
	Fresh-Moist Ash Lowland Deciduous			
FOD7-2	Forest	1	1.76	0.91
FOD8-1	Fresh – Moist Poplar Deciduous Forest	1	0.92	0.48
	Fresh – Moist Oak – Maple – Hickory			
FOD9	Deciduous Forest	4	3.95	2.04
SWD1	Oak Mineral Deciduous Swamp	6	76.33	39.41
SWD1-3	Pin Oak Mineral Deciduous Swamp	2	1.33	0.69
SWD2-2	Green Ash Mineral Deciduous Swamp	4	22.69	11.72
SWD4-1	Willow Mineral Deciduous Swamp	7	4.92	2.54
				100.0
		45	193.67	0

Table 5: Summary of ELC Ecosite and Vegetation Types observed within study area.

Table 6: Summary of plant species observed within ELC polygons. Grey highlighting identifies species that are uncommon or rare in Niagara; those with asterisk (*) represent those that are provincially rare (S2 or S2S3).

Table 6: Summary of plant speci	ies observed within ELC polygons.	Greyn	igniig	jntii	ng i	aen	LIIIe	es spec	ies i	natar	re ur	ncon	mmon	orra	ire in		gara	; those	witt	asie	risk	(°) I	epres	senti	nos	se that		pro	vinc	lany	rare	(52	013	233).
Scientific Name	Common Name	-	2	m	4	5	9	۰	5 0	10	11	12	13	14 14	19	17	18	19 20	21	22 (35, 37)	23	24	25	26 (39) 77	12	28 (34, 47) 29	30 (36, 38, 40)	31	32	33	41	42	44	45
Acer negundo	Manitoba Maple	х											х	х																	х	х	х	х
Acer rubrum	Red Maple			1	х							х	х				х							х	(X	ĸ								
Acer saccharinum	Silver Maple					х						х												х										х
Acer saccharum	Sugar Maple				х	х					х	х												x					х					x
Acer x freemanii	Hybrid Maple (Acer rubrum X Acer saccharinum)			x	x	x	x	x					x				x							x	:				x					x
Achillea millefolium	Common Yarrow								х					x											х	ĸ								
Agrimonia gryposepala	Hooked Agrimony	х	х	2	х	х	х	x x			х	х			х									x			х	х						x
Agrostis gigantea	Redtop			x											х																			
Agrostis stolonifera	Creeping Bentgrass																							х	<u>. </u>			 			\square			
Alisma subcordatum	Southern water-plantain					х																							\square		\square			х
Alisma triviale	Northern Water-plantain			x	х	х												х																х
Alliaria petiolata	Garlic Mustard	x		x 🗄	х	x		x			х	х	x	x			х							x			х	х						x
Allium cernuum	Nodding onion			x																														
Allium tricoccum var. tricoccum	Wild Leek					х	х																											х
Ambrosia trifida	Great Ragweed					х																												х
Amelanchier arborea	Downy Serviceberry	х				х	х	х			х	х																	х					х
Antennaria howellii ssp. canadensis	Canada Pussytoes														х																			
Apocynum androsaemifolium	Spreading Dogbane																								х	ĸ								
Apocynum cannabinum	Hemp Dogbane																						х											
Arisaema triphyllum	Jack-in-the-pulpit			1	х	х	х				х	х		х			х	х		х														х
Aronia melanocarpa	Black Chokeberry																							x										
Asclepias incarnata	Swamp Milkweed			x	х	х										х		x						x										х
Asclepias syriaca	Common Milkweed								х																х	ĸ								
Asparagus officinalis	Garden Asparagus								х																									
Athyrium filix-femina var. angustum	Northeastern Lady Fern					х																		х	:									х
Atriplex prostrata	Creeping Saltbush																										х	х						
Berberis thunbergii	Japanese Barberry				х	х																		x					х					х
Bidens cernua	Nodding Beggarticks																							x	(X	ĸ	х	х			\square			
Bidens comosa	Three-parted Beggarticks					х																												х
Bidens connata	Purple-stemmed Beggarticks			x	х																										шŢ			
Bidens frondosa	Devil's Beggarticks				х																				х	ĸ					шĪ			
Blephilia ciliata	Downy wood mint					х																												х
Boehmeria cylindrica	False Nettle			x	х									х										х							\square			
Brassica nigra	Black Mustard							x						x																	шĪ			
Caltha palustris	Yellow Marsh Marigold					x																												x
Calystegia sepium	Hedge False Bindweed		Γ			T	T				T	, T			х						T		T				I T	1 7			ιT		T	

Scientific Name	Common Name	7	m	4	Ŋ	Q	7	∞ 0	01	2 1	12	13	14	15	16	18	19	20	21	22 (35, 37)	23	24	25	26 (39) 27	28 (34, 47)	29	30 (36, 38, 40)	31	32	33	41	42	44	46
Cardamine concatenata	Cut-leaved Toothwort				х																													x
Cardamine douglassii	Limestone Bittercress				х	х																												х
Cardamine pensylvanica	Pennsylvania Bittercress																							x										
Carduus nutans ssp. nutans	Nodding Thistle																						х											
Carex arcta	Northern Clustered Sedge																х																	
Carex bebbii	Bebb's Sedge															х																		
Carex blanda	Woodland Sedge				х	х								х			х							х										х
Carex canescens	Hoary Sedge															x																		
Carex comosa	Bristly Sedge																							x										
Carex crinita	Fringed Sedge		x	х	х																			x										х
Carex echinata	Star sedge				х																								1					х
Carex flava	Yellow Sedge													;	< X	:																		
Carex garberi	Elk Sedge														×	:																		
Carex gracillima	Graceful Sedge	х			х								х	х		x								x			х	х	1					x
Carex grayi	Asa Gray Sedge																							x										
Carex hystericina	Porcupine Sedge																							x					1					
Carex intumescens	Bladder Sedge				х																			x					1	х				х
Carex lacustris	Lake-bank Sedge																	x						x					1					
Carex leptonervia	Finely-nerved Sedge												х		×	:																		
, Carex lupulina	Hop Sedge	x			х											x								x					х					x
Carex pallescens	Pale Sedge																							x										
Carex pellita	Woolly Sedge																						x											
Carex prasina	Drooping Sedge															x																		
Carex projecta	Necklace Sedge				х																			x										x
Carex pseudocyperus	Cyperus-like Sedge																							x										
Carex radiata	Stellate Sedge			x				x																x										
Carex retrorsa	Retrorse Sedge																							x										
Carex rosea	Rosy sedge							x																										
Carex stipata	Awl-fruited Sedge	x													×	x													<u> </u>					
Carex stricta	Tussock Sedge				х													x																x
Carex tenera	Slender Sedge			x	х																			x										x
Carex tribuloides	Blunt Broom Sedge																	x						x										
Carex tuckermanii	Tuckerman's Sedge		x	x																									x					
Carex vulpinoidea	Fox Sedge				x											x		x											i T					x
Carpinus caroliniana	Blue-beech		+	x	x	x					х				+				\rightarrow		\rightarrow	\rightarrow	+	x	+				Х			-+		x
Carya cordiformis	Bitternut Hickory		x								~				+		x	+						x	-				X			-		
Carya ovata	Shagbark Hickory			x	х	x					х	x			+	x		+		x				x					x			+	-+	x
Celtis occidentalis	Common hackberry		+							_	x				+	^	^	+	\rightarrow	^	\rightarrow	\rightarrow		^								+	+	

Scientific Name	Common Name	- 2	m	4	. 5	6	7	8	6	2 1	12	13	14	15	16	18	19	20	21 22 (35. 37)	23	24	25	26 (39)	12 (17 PC) 8C	28 (34, 4/) 29	30 (36, 38, 40)	31	32	33	41	42	44	46
Centaurea nigra	Black Knapweed																							x	[
Cephalanthus occidentalis	Common Buttonbush		х	х	х)	(х					х
Cerastium fontanum	Common Mouse-ear Chickweed																						>	(
Chelidonium majus	Greater Celadine)	(
Chelone glabra	White Turtlehead				х																												х
Cichorium intybus	Chicory						х																										
Cicuta maculata var. maculata	Spotted Water-hemlock			х	х	х)	x				х)	(х					х
Cinna latifolia	Drooping Woodreed			x	x											х)	(х					x
Circaea canadensis	Broad-leaved Enchanter's Nightshade	x				х		х		х	х		>	x		х	х						>	(х	х	х					
Cirsium vulgare	Bull Thistle				х											х																	х
Claytonia caroliniana	Carolina Spring Beauty					х					x																						
Claytonia virginica	Narrow-leaved Spring Beauty				х						х																						х
Convallaria majalis	European Lily-of-the-valley				х																												х
Convolvulus arvensis	Field Bindweed																					х											
Cornus amomum	Silky Dogwood	x x	х	х												х)	(
Cornus racemosa	Gray Dogwood	x	х	х	х	х	х	х	х	х	х	х	x >	x	x	x	х	х	x			x	x >	(X				х		-			х
Cornus stolonifera	Red-osier Dogwood	x	х	x	x	х	х	x	x x	х		x)	x x	< x	x		x					x >	(X		x	х						x
Crataegus grandis	Grand hawthorn										х																						
Crataegus monogyna	English Hawthorn																	х															
Crataegus punctata	Dotted Hawthorn	x				х		х					>	хх	(X		х					х	>	(х	х						
Crataegus succulenta	Fleshy Hawthorn	x															х																
Dactylis glomerata	Orchard Grass)	х																			
Daucus carota	Wild Carrot						х		х				>	хх	(х		x	[х			
Doellingeria umbellata	Flat-top White Aster																											х					
Dryopteris carthusiana	Spinulose Wood Fern		х		х																												х
Elaeagnus angustifolia	Russian Olive							х						Х	(-			
Eleocharis erythropoda	Red-stemmed Spike-rush														x																		
Eleocharis obtusa	Blunt Spike-rush		х	х)	(
Eleocharis ovata	Ovate Spike-rush)	x)	(-			
Eleocharis palustris	Creeping Spike-rush												x																				
Elymus canadensis	Canada Wildrye																							x									
Elymus hystrix	Bottlebrush Grass				x																												х
Elymus virginicus var. virginicus	Virginia Wildrye			x)	(
Epifagus virginiana	Beechdrops			1	х												1														\top	+	x
Epilobium ciliatum	Hairy Willowherb	x			1																												
Equisetum arvense	Field Horsetail				x			х	x)	x x	(X	x	х		x											+		+	x
Erigeron annuus	Annual Fleabane				1)	x																			
Erigeron philadelphicus	Philadelphia Fleabane		1		1							$\neg \uparrow$					х													+	+		

Scientific Name	Common Name	1 2	ю	4	5	9	7	8	6	10	: ;	12 13	14	15	16	17	18	19	20	22 (35, 37)	23	24	25	26 (39) 77	28 (34, 47)	29	30 (36, 38, 40)	31	32	33	41	42	44	46
Erythronium americanum	Yellow Trout-lily				х	x		х			x	(х			Т		х
Eupatorium perfoliatum	Common Boneset				х																			x	х	1	x	х	х					х
Eurybia divaricate	White wood aster			х																														
Eurybia macrophylla	Large-leaved Aster			х	х																			x		:	x	х	х					х
Eurybia schreberi*	Schreber's Aster*																							х										
Euthamia graminifolia	Grass-leaved Goldenrod															х							х		х									
Eutrochium maculatum var. maculatum	Spotted Joe Pye Weed																x	>	k	x														
Fagus grandifolia	American Beech			х	х	х					x	ĸ					х							x					х	х				х
Fragaria virginiana	Wild Strawberry	х	х	х	х	х	х	х	х	х	х	x x		х	х	х	х			х			х	x			х	х	х	х				х
Frangula alnus	Glossy Buckthorn													х		х	х		х	х	х	х												
Fraxinus americana	White Ash				х																					2	x	х	х					x
Fraxinus pennsylvanica	Green Ash	x	х	х	х	х	х	х	х	х	x	x x		х		х	x >	<)	(X	х	х	х		x x	х	:	x	х	х					х
Galium obtusum	Blunt-leaved Bedstraw																							x										
Galium palustre	Marsh Bedstraw		x	х	х													>	(х
Geranium maculatum	Spotted Geranium				х	х				х	x	¢					х							х					х					х
Geum fragarioides	Barren Strawberry				х																													х
Geum laciniatum	Rough Avens			х																														
Gleditsia triacanthos*	Honey-locust*																											х						
Glyceria septentrionalis	Eastern Mannagrass																							x										
Glyceria striata	Fowl Mannagrass	x	х	х	х												x)	<)	< x		х	х		x		1	x	х	х					х
Gymnocladus dioicus	Kentucky Coffeetree	x																																
hyHamamelis virginiana	American Witch-hazel																							x										
Hemerocallis fulva	Orange Daylily													х																				
Hydrophyllum virginianum	Virginia Waterleaf										х	(
Hypericum perforatum	Common St. John's-wort	x			х									х	х																			х
Hypericum punctatum	Common St. John's-wort				х																													х
llex mucronata	Mountain Holly																							x										
llex verticillata	Black Holly																							x										
Impatiens capensis	Spotted Jewelweed				х									х										х		:	х	х	х					х
Iris versicolor	Harlequin Blue Flag		х	х	х																													х
Juglans nigra	Black Walnut	x x															х								x									
Juncus dudleyi	Dudley's Rush												х												x							1		
Juncus effusus	Soft Rush	x	х	х		1																		x								\top		
Juncus tenuis	Path Rush					1							х																			\top		
Juniperus virginiana	Eastern Red Cedar						х								х																	1		
Lamium amplexicaule	Common Deadnettle															х																		
Laportea canadensis	Wood Nettle		1	1	1	1	Ì													1							x	х	х			\top		

Scientific Name	Common Name	-	2	m <	4	5	و	8	6	10	= 2	13	14	15 16	17	18	19	20	22 (35, 37)	23	24	26 (39)	27	28 (34, 47) 29	30 (36, 38, 40)	31	32	33	41	42	44	46
Lapsana communis	Common Nipplewort	х										х		х		х	х		х				х		х	х		х				
Leersia oryzoides	Rice Cutgrass)	(X	()	х																					х					х
Leersia virginica	Virginia Cutgrass																						х									
Leucanthemum vulgare	Oxeye Daisy													x x							×											
Ligustrum vulgare	European Privet	х														х	х															
Linaria vulgaris	Butter-and-eggs													х																		
Lindera benzoin	Spicebush	х	2	(X	(x	x				х					х	х		х				х				х					х
Lonicera tatarica	Tartarian Honeysuckle	х	x x	(X	()	x	x	х		x >	(X			х		х	х					х	х	х								х
Lycopus americanus	American Water-horehound					х												х						х			х					x
Lycopus uniflorus	Northern Water-horehound)	(X	()	х								х	х								х									х
Lysimachia nummularia	Creeping Jennie			х	()	х								х										х	х	х	х					х
Lythrum salicaria	Purple Loosestrife)	(X	()	х	1	х					х			х							х	х								x
Maianthemum canadense	Wild Lily-of-the-valley					x	x																									х
Maianthemum racemosum	False Solomon's-seal																						х									
Maianthemum stellatum	Star-flowered False Solomon's-seal					х																	х									x
Maclura pomifera	Osage-orange	х																														
Malus coronaria	Sweet Crabapple																				×											
Malus pumila	Common Apple	х				х		х				х					х															x
Medicago lupulina	Black Medic																						х									
Melilotus albus	White Sweet-clover																				×											
Melilotus officinalis	Yellow Sweet-clover													х																		
Mentha arvensis	Field Mint														х	х																
Narcissus pseudonarcissus	Commom Daffodil									>	(
Onoclea sensibilis	Sensitive Fern)	(X	()	x	x			>	(X			х		х	х	x		x	<		х	х			х					х
Osmunda regalis	Royal Fern					х																										х
Osmundastrum cinnamomeum	Cinnamon Fern					х																										х
Ostrya virginiana	Eastern Hop-hornbeam																						х		х	х						
Oxalis montana	Common Wood-sorrell					х								х													х					х
Parthenocissus inserta	Thicket Creeper	х		х	()	x	x	х	х		х			х	х	х	х		х				х	x	х	х		х				х
Penstemon digitalis	Foxglove Beardtongue)	(X	(x								
Penstemon hirsutus	Hairy beardtongue)	(
Penthorum sedoides	Ditch-stonecrop)	(X	(x					х					x								
Persicaria hydropiper	Marshpepper Smartweed)	(X	(x								
Persicaria sagittata	Arrow-leaved Smartweed					х				Ì																						х
Persicaria virginiana	Virginia Smartweed	х	;	(X	()	x	x				x			х		x							х		х	х					1	x
Phalaris arundinacea	Reed Canary Grass		x x	(X	()	х																	х	x	х	х					1	x
Phragmites australis ssp. americanus	American Reed						2	x	x	x	x												x									

Scientific Name	Common Name	-	3 2	4	Ŋ	6	2	6	10	11	12	13	14	15 16	17	18	19	20	21	22 (35, 37)	24	25	26 (39) 27	28 (34, 47)	29	30 (36, 38, 40)	31	32	33	41	44	45	46
																				2			2	28		30 (
Phragmites australis ssp. australis	European Reed						х	х	х	х	х											х								x x	x	х	
Pilea pumila	Canada Clearweed				х																												х
Pilosella caespitosa	Meadow Hawkweed																						Х										
Pinus sylvestris	Scotch Pine	х	х	х																													
Plantago aristata	Large-bracted plantain													х																			
Plantago lanceolata	English Plantain													х	х							х											
Plantago major	Common Plantain							х															х	х									
Poa compressa	Canada Bluegrass													х																			
Poa nemoralis	Woods Bluegrass			х																													
Poa pratensis ssp. pratensis	Kentucky Bluegrass													х								х								x	x	х	
Podophyllum peltatum	May-apple				х	х					х						х																х
Polygonum achoreum	Leathery Knotweed				х																												х
Polygonum aviculare ssp. aviculare	Prostrate Knotweed																					х											
Polygonum virginianum	Virginia Knotweed																											2	х				
Populus deltoides ssp. deltoides	Eastern Cottonwood	х	х		х		x x	х	х	х	х	х	х	x x	х	х	х	х	x	x x	x	х	х						х				х
Populus tremuloides	Trembling Aspen				х	х	x			х		х																					х
Potentilla recta	Sulphur Cinquefoil	x																															
Potentilla simplex	Old-field Cinquefoil				х									х									x										х
Prunella vulgaris ssp. vulgaris	Self-heal				х																			х									х
Prunus americana	American Plum																х																
Prunus avium	Sweet Cherry				х	х						x											х										x
Prunus pensylvanica	Pin Cherry			х																													
Prunus serotina	Wild Black Cherry	х			x	х					х				1								х	x		х	x						x
Prunus virginiana	Choke Cherry	х	х	х	х	х	x x	х		х	х			x x	х	x	х			x			х			х	х	x :	х	-	-		х
Quercus alba	White Oak				х																		x			х	х			-	-		х
Quercus bicolor	Swamp White Oak		x	х										х		x							х		x	х	x	:	х				
Quercus ellipsoidalis	Northern Pin Oak				х					х						1																	x
Quercus macrocarpa	Bur Oak	x	x	x	х	х				х	x			x		x							x x	x	x	х	x	x					x
Quercus palustris	Pin Oak	x	x x	x	x	х	x			х	x	х			x	x	х	x	x	×	x		x	-	x	х			х			T	x
Quercus rubra	Northern Red Oak			x	x	х	x					х				x							х			х		X	х			+	x
Ranunculus abortivus	Kidney-leaved Buttercup				x	х								x			х						х					x			-	-	x
Ranunculus acris	Tall Buttercup													X																		+	+
Ranunculus hispidus var. hispidus	Bristly buttercup				x							-+	\rightarrow		+					+										+	+	+	x
Rhamnus alnifolia	Alderleaf Buckthorn																	x															
Rhus typhina	Staghorn Sumac																											x				+	
Rhamnus cathartica	Common Buckthorn	x	x	x	x	x	x		x	х	x	x	х	x		x	x	x	x	x x	x	x	x x	x		x	x		x	x	+	+	x
Ribes americanum	Wild Black Currant	~		^			x	_		~	~	~	^	^		^	~		<u>~</u>			^				~	~		^			+	+
					x							-+			-					x										\rightarrow	—	+	x
Ribes cynosbati	Prickly Gooseberry				^										1					n													^

Scientific Name	Common Name	-	2	3	4	2 V	o 1	~ 8	6	10	11	12 13	14	15	16	17	18	19	20	22 (35, 37)	23	24	25	26 (39) 27	28 (34, 47)	29	30 (36, 38, 40)	31	32	55	41 42	44	45	46
Ribes glandulosum	Skunk Currant	х			>	< X	(х			x	х									x	х						х
Ribes hirtellum	Smooth Gooseberry			x	x																													
Ribes lacustre	Bristly Black Currant		х		>	<																												х
Ribes triste	Swamp Red Currant					x																												
Rosa multiflora	Multiflora Rose													х										x x			х	х						
Rosa palustris	Swamp Rose																							х										
Rosa rubingosa var. rubingosa	Briar Rose)	<														х					х									х
Rubus allegheniensis	Alleghany Blackberry					х	[х					х							х	х		х	х						
Rubus hispidus	Bristly Dewberry				>	<																		х										x
Rubus idaeaus ssp. idaeus	European red raspberry											х																2	(
Rubus idaeus ssp. strigosus	Wild Red Raspberry	х			>	< X	(х	х		X	х		х			х		х	х				x x					х	(х
Rubus occidentalis	Black Raspberry	х																									x	х						
Rubus pubescens	Dewberry				x >	<																												x
Rudbeckia hirta var. hirta	Black-eyed Susan							х																										
Salix alba	White Willow		х											х				х																
Salix amygdaloides	Peach-leaved Willow																							х										
Salix bebbiana	Bebb's Willow				>	‹										х	х							х	х			3	(х
Salix discolor	Pussy Willow															х																		
Salix eriocephala	Heart-leaved Willow																						х											
Salix interior	Sandbar Willow														х	х																		
Salix nigra	Black Willow																							х										
Salix x fragilis	(Salix alba X Salix euxina)						х																											
Sambucus canadensis	Common Elderberry				x																													
Sambucus nigra	European Elder																							х										
Sanguinaria canadensis	Bloodroot																	х																
Poa us pratensis	Meadow Fescue													х									х											
Schoenoplectus tabernaemontani	Soft-stemmed Bulrush																		х															
Scirpus atrovirens	Dark-green Bulrush																х																	
Scirpus microcarpus	Red-tinge Bulrush												х																					
Scirpus pendulus	Rufous Bulrush		х	х	x >	‹																												x
Scutellaria lateriflora	Mad Dog Skullcap				>	‹																			х									х
Securigera varia	Common Crown-vetch																						х											
Sisyrinchium montanum var. montanum	Strict Blue-eyed-grass														x								x											
Sium suave	Hemlock Water-parsnip			x	х														х					х										
Solanum dulcamara	Climbing Nightshade		х	х	х									х										х	х)	K			
Solidago altissima ssp. altissima	Eastern Late Goldenrod													х			х						х	x					x	(

Scientific Name	Common Name	1	2	m r	r u		0	œ	6	10	12	13	14	15	16	17	10	20	21	22 (35, 37)	23	24	22 1007 20	20 (39)	28 (34, 47)	29	30 (36, 38, 40)	31	32	33	41	44	45	46
Solidago canadensis var. canadensis	Canada Goldenrod				x	×	(:	x :	x x	(x				x			Γ		x
Solidago flexicaulis	Zigzag Goldenrod			x	х																													х
Solidago juncea	Early Goldenrod													x	х							>	(
Solidago nemoralis ssp. nemoralis	Gray-stemmed Goldenrod						х							:	х																			
Solidago patula	Spreading Goldenrod	х																																
Solidago rugosa var. rugosa	Northern Rough-leaved Goldenrod	х		x x	х											x	(х			х	x x			х	х						х
Sphenopholis intermedia	Slender Wedge Grass																							х										
Spiraea alba	White Meadowsweet			x x	х	x	(х	х									х
Streptopus lanceolatus var. lanceolatus	Eastern rose-twisted stalk				x																													x
Symphoricarpos occidentalis	Western snowberry			х																														
Symphyotrichum ericoides var. ericoides	White Heath Aster						х						x	2	x										x									
Symphyotrichum laeve var. laeve	Smooth Aster														x																			
Symphyotrichum lanceolatum ssp. lanceolatum	Panicled Aster	x	x	x x	x		x						x	x	2	x x	(x		x			x	x	x		x	x		x				x
Symphyotrichum lateriflorum	Starved Aster	x	х		х																			x	х		х	х	x	х				х
Symphyotrichum novae-angliae	New England Aster				х			х					х	x	х	x	c							x	х									х
Symphyotrichum pilosum var. pilosum	Old Field Aster						x						x	:	x																			
Symphyotrichum urophyllum	Arrow-leaved Aster				х																													х
Taraxacum officinale	Common Dandelion	х			х	х	(х	х	х	(X			х	2	x x	(>	(х
Thalictrum dioicum	Early Meadow-rue				х						х																							х
Thelypteris palustris	Eastern Marsh Fern				х																								х					х
Tilia americana	American Basswood				х						х					x	c							х			х	х	х					х
Toxicodendron radicans	Climbing Poison Ivy	х	х	x	х	х	x	х		х	(X			х	2	x x	(X	х		х				х	х		х	х		х				х
Trifolium pratense	Red Clover								х					х								>	(
Trifolium repens	White Clover																								х									
Trillium grandiflorum	White Trillium				х																													х
Tussilago farfara	Colt's-foot						х								2	x																		
Typha angustifolia	Narrow-leaved Cattail				х																													х
Typha latifolia	Broad-leaved Cattail			x x																		>	(х										
Ulmus americana	American Elm	х	х	x x	х	х	x	х	х	х	(X	х		x	x	x x	x	х						х	х		х	х	х					х
Ulmus rubra	Slippery Elm												х																					
Urtica dioica ssp. dioica	European Stinging Nettle			x x																														
Uvularia grandiflora	Large-flowered Bellwort				х																													х
Vaccinium corymbosum	Highbush Blueberry				х																													х
Verbena hastata	Blue Vervain		х													x	(х	х		х	х						
Verbena urticifolia	White Vervain	х												T							T						ΙŤ	T	T	Τ				

Scientific Name	Common Name	-	2	2 4	5	6	7	∞ o		1 2	12	13	14	15	16	18	19	20	21 22 (35, 37)	23	24	25	20 (39) 27	4, 47)	29	38, 40)	31	33	41	42	44	45 46
Scientific Name	Common Name					Ŭ			~ -		-	1	-	-		-	1	7	22 (3)	7	7	6	2 2	28 (34,	7	30 (36, 38,	m m	m	4	7 4	4 .	4 4
Veronica officinalis	Common Speedwell	x						x															x			Т				T		
Viburnum acerifolium	Maple-leaf Viburnum											х											х									
Viburnum lentago	Nannyberry				х	х										х							х									х
Viburnum opulus ssp. trilobum	Highbush Cranberry												х	х	x		х															
Viburnum recognitum	Smooth Arrowwood							х							х	х																
Vicia cracca	Tufted Vetch						х	x x						х							:	x		х								
Vinca minor	Periwinkle							х						х																		
Viola affinis	Le Conte's Violet															x																
Viola cucullata	Marsh Blue Violet		,	(X	x																					Т						x
Viola palmata	Palmate-leaved violet		,	(
Viola sororia	Wooly blue violet					х																								1		
Vitis riparia	Riverbank Grape			x				x x						х	x	x	х						x	x						1		
Arctium sp	Burdock Species																											х	,	x x	k ;	x
Artemisia sp	Worm wood Species																									+			x			
Aster sp	Aster species							x x		x	х															+				-	_	
Carya sp	Hickory Species													х												x	x			-	_	
Crataegus sp	Hawthorn Species	x	,	(X	x	х		x x		x	х	х				x			x			>	(x		-				+		x
Dryopteris sp	Wood Fern Species			х	х									х									х									х
Epilobium sp	Willow-herb Species				x	х								х																		х
Galium sp	Bedstraw Species				x																											х
Geum sp	Avens Species	х			x	х		х		х	х	х		х		х	х		x				x		:	x	x x	х				х
, Hieracium sp	Hawkweed Species														x																	
Juncus sp	Rush Species				x								х	х																		х
Lemna sp	Duckweed Species				x																		x									х
Malus sp	Apple Species	х			x	х	х							х		х																х
, Myosotis sp	Forget-me-not Species		,	(X																										1		
Oenothera sp	Evening-primrose Species														x																	
Oxalis sp	Wood-Sorrel Species				x	х																					x			1		х
Polygonum sp	Smartweed Species	x	x x	(X																										1		
Potamogeton sp	Pondweed Species				x																										-	х
Potentilla sp	Cinquefoil Species					х				x													x								-	
Prenanthes sp	Rattlesnake-root Species			x	x				+																	+				+	+	x
Rosa sp	Rose Species	x	,	(X	-	х	х	x	+	x						x				+	+					+		1		+	+	
Salix sp	Willow Species			(X				x	x	-								х	x	x	х					+		1		+	+	
Scirpus sp	Bulrush Species				x				+									x		+						+				+	\top	x
Trifolium sp	Clover Species						x								x					+						+				x x	x T	x
Vicia sp	Vetch Species																			+						+				+	+	+
Viola sp	Violet Species								+					x			x			+	-+		x			+		+		+	+	

Pond	Number o	f Ambystom	a laterale ca	aptured by s	urvey date	TOTAL
Pond	April 8	April 10	April 13	April 17	April 20	TOTAL
1	3	12	1	0	0	16
2	1	3	0	0	0	4
3	3	4	2	0	1	10
4	1	2	1	0	0	4
5	0	0	0	0	0	0
6	1	3	2	0	0	6
7	2	5	0	0	0	7
8	0	19	0	0	0	19
TOTAL	11	48	6	0	1	66

Table 7: Ambystoma laterale (and unisexual polyploids) capture numbers by date and pond (see Appendix 2).

Table 8: Summary of anuran species found at each Nocturnal Amphibian Call Station.

Property Location	NACS Station	Spring Peeper Pseudacris crucifer	American Toad Anaxyrus americanus	Western Chorus Frog Pseudacris triseriata	Northern Leopard Frog Lithobates pipiens	Gray Treefrog Hyla versicolor	Wood Frog Lithobates sylvaticus
North Area (Oldfield	1	Present	Present	Present		Present	
Road)	2	Present	Present	Present		Present	
	13					Present	
East Area (Dorchester	3	Present		Present		Present	
Road)	4	Present				Present	
	5	Present		Present		Present	
Central Area (Near	6	Present	Present	Present	Present	Present	
Conrail Drain)	11	Present				Present	
Central Area (south of Conrail Drain)	12					Present	
South Area (north of	7	Present	Present	Present		Present	
Dorchester	8	Present	Present	Present		Present	
Road/Chippewa	9	Present		Present		Present	Present
Parkway)	10		Present	Present		Present	

Table 9: Breeding Bird Summary. Grey highlights indicate species that were observed, but not breeding on the property. Green highlights indicate species that are either provincially, regionally, or locally rare, and/or area sensitive.

			Conse	ervation S	tatus				
		National	Provin		Regional	Local			
Common Name	Scientific Name	COSEWIC Designation (2014)	OMNRF Designation (OMNRF 2015)	Srank (2013 Update)	BCR 13 Priority Sp. (Lower Great Lakes / St. Lawrence Plain) (OPIF 2008)	Niagara Region (Black & Roy 2010)	Covered by MBCA (1994)	Area Sensitivity (OMNR 2000)	Breeding Evidence (OBBA 2001)
Canada Goose	Branta canadensis			S5		very common	Y		Х
Wood Duck	Aix sponsa			S5		uncommon	Y		Possible
Mallard	Anas platyrhynchos			S5		common	Y		Possible
Wild Turkey	Meleagris gallopavo			S5		uncommon	Ν		Possible
Double-crested Cormorant	Phalacrocorax auritus	NAR	NAR	S5		very common	Ν		Х
Great Blue Heron	Ardea herodias			S4		uncommon	Y		Х
Great Egret	Ardea alba			S2		rare	Y		Х
Black-crowned Night-Heron	Nycticorax			S3		uncommon	Y		Х
Sharp-shinned Hawk	Accipiter striatus	NAR	NAR	S5		uncommon	Ν	AS	Possible
Killdeer	Charadrius vociferus			S5		common	Y		Probable
Spotted Sandpiper	Actitis macularius			S5		common	Y		Possible
Common Tern	Sterna hirundo	NAR	NAR	S4		uncommon	Y		Х
Rock Pigeon	Patagioena livia			SNA		very common	Ν		Possible
Mourning Dove	Zenaida macroura			S5		very common	Y		Possible
Cuckoo species	Coccyzus sp.			S4-S5		uncommon	Y		Possible
Great Horned Owl	Bubo virginianus			S4		uncommon	Ν		Possible
Chimney Swift	Chaetura pelagica	THR	THR	S4	PLS	uncommon	Y		Х
Red-bellied Woodpecker	Melanerpes carolinus			S4		uncommon	Y		Probable
Downy Woodpecker	Picoides pubescens			S5		common	Y		Probable
Hairy Woodpecker	Picoides villosus			S5		uncommon	Y	AS	Possible
Northern Flicker	Colaptes auratus			S4	PLS	common	Y		Probable
Eastern Wood-Pewee	Contopus virens	SC	SC	S4	PLS	common	Y		Probable
Acadian Flycatcher	Empidonax virescens	END	END	S2S3	PLS	extremely rare	Y	AS	Possible
Willow Flycatcher	Empidonax traillii			S5	PLS	uncommon	Y		Probable
Eastern Phoebe	Sayornis phoebe			S5		common	Y		Possible
Great Crested Flycatcher	Myiarchus crinitus			S4		common	Y		Probable

			Conse	ervation	Status				
		National	Provin		Regional	Local	-		
Common Name	Scientific Name	COSEWIC Designation (2014)	OMNRF Designation (OMNRF 2015)	Srank (2013 Update)	BCR 13 Priority Sp. (Lower Great Lakes / St. Lawrence Plain) (OPIF 2008)	Niagara Region (Black & Roy 2010)	Covered by MBCA (1994)	Area Sensitivity (OMNR 2000)	Breeding Evidence (OBBA 2001)
Yellow-throated Vireo	Vireo flavifrons			S4		rare and local	Y	AS	Probable
Warbling Vireo	Vireo gilvus			S5		common	Y		Probable
Red-eyed Vireo	Vireo olivaceus			S5		common	Y		Probable
Blue Jay	Cyanocitta cristata			S5		very common	N		Probable
American Crow	Corvus brachyrhynchos			S5		common	N		Probable
Purple Martin	Progne subis			S4		very common	Y		х
Tree Swallow	Tachycineta bicolor			S4		very common	Y		Probable
Northern Rough-winged Swallow	Stelgidopteryx serripennis			S4		uncommon	Y		х
Barn Swallow	Hirundo rustica	THR	THR	S4		very common	Y		Possible
Black-capped Chickadee	Poecile atricapillus			S5		common	Y		Probable
Tufted Titmouse	Baeolophus bicolor			S4		rare	Y	AS	Probable
White-breasted Nuthatch	Sitta carolinensis			S5		uncommon	Y	AS	Probable
House Wren	Troglodytes aedon			S5		common	Y		Probable
Wood Thrush	Hylocichla mustelina	THR	SC	S4	PLS	uncommon	Y		Probable
American Robin	Turdus migratorius			S5		very common	Y		Probable
Gray Catbird	Dumetella carolinensis			S4		common	Y		Probable
Brown Thrasher	Toxostoma rufum			S4	PLS	uncommon	Y		Possible
European Starling	Sturnus vulgaris			SNA		very common	N		Probable
Cedar Waxwing	Bombycilla cedrorum			S5		common	Y		Probable
Blue-winged Warbler	Vermivora cyanoptera			S4	PLS	uncommon	Y		Probable
Common Yellowthroat	Geothlypis trichas			S5		common	Y		Probable
Yellow Warbler	Setophaga petechia			S5		common	Y		Probable
Blackpoll Warbler	Setophaga striata			S4		spring/fall transient	Y		Migrant
Wilson's Warbler	Cardellina pusilla			S4		spring/fall transient	Y		Migrant
Eastern Towhee	Pipilo erythrophthalmus			S4	PLS	uncommon	Y		Probable

			Conse	ervation	Status				
		National	Provin	cial	Regional	Local			
Common Name	Scientific Name	COSEWIC Designation (2014)	OMNRF Designation (OMNRF 2015)	Srank (2013 Update)	BCR 13 Priority Sp. (Lower Great Lakes / St. Lawrence Plain) (OPIF 2008)	Niagara Region (Black & Roy 2010)	Covered by MBCA (1994)	Area Sensitivity (OMNR 2000)	Breeding Evidence (OBBA 2001)
Chipping Sparrow	Spizella passerina			S5		common	Y		Probable
Field Sparrow	Spizella pusilla			S4	PLS	uncommon	Y		Probable
Savannah Sparrow	Passerculus sandwichensis			S4	PLS	very common	Y	AS	Possible
Song Sparrow	Melospiza melodia			S5		very common	Y		Probable
Swamp Sparrow	Melospiza georgiana			S5		uncommon	Y		Probable
Scarlet Tanager	Piranga olivacea			S4		uncommon	Y	AS	Probable
Northern Cardinal	Cardinalis			S5		common	Y		Probable
Rose-breasted Grosbeak	Pheucticus Iudovicianus			S4	PLS	common	Y		Probable
Indigo Bunting	Passerina cyanea			S4		common	Y		Probable
Red-winged Blackbird	Agelaius phoeniceus			S4		very common	N		Probable
Common Grackle	Quiscalus quiscula			S5		very common	N		Probable
Brown-headed Cowbird	Molothrus ater			S4		very common	Ν		Probable
Orchard Oriole	Icterus spurius			S4		uncommon to rare	Y		Possible
Baltimore Oriole	lcterus galbula			S4	PLS	common	Y		Probable
American Goldfinch	Spinus tristis			S5		common	Y		Probable
House Sparrow	Passer domesticus			SNA		very common	N		Probable

LEGEND:

COSEWIC: END - Endangered; THR - Threatened; SC - Special Concern; NAR - assessed and deemed to be not at risk; --- = not assessed as

population secure

OMNRF: END - Endangered; THR - Threatened; SC - Special Concern; NAR - assessed and deemed to be not at risk; --- = not assessed as population secure

Provincial Sranks: S2/S3 - vulnerable; S4 - apparently secure; S5 - secure; SNA - non-native exotic

OPIF: PLS - Priority Landbird Species

Area Sensitivity: AS = Area Sensitive species

OBBA: X - species observed flying over site only and not considered as potential breeder; M - migrant only

	W	Watercourse 1			Watercourse		Watercourse		Pond
					2		3 (Conrail		
							Dra	in)	
Date	June 11	Oct. 6	June 11	June	June 11	Oct. 6	June 11	June	June
				11				11	11
Station	1-1	1-1	1-2	1-3	2-1	2-1	3-1	3-2	P1
Electroseconds	241 s	na	196 s	115 s	703 s	1057 s	811 s	109 s	141 s
Stream length sampled	22 m	22 m	25 m	36 m	155 m	168 m	105 m	12 m	na
Species									
White Sucker	1j	20yoy	0	0	0	18yoy	0	0	0
Catostomus commersonii	IJ	20909	0	0	0	тоубу	0	0	0
Largemouth Bass	0		0	0	0	7j	0	0	0
Micropterus salmoides	0		0	0	0	/]	0	0	0
Central Mudminnow	2a	10a	0	0	0	1a	0	0	0
Umbra limi	20	104	0	0	U	Ta	0	0	0
Yellow Perch	1j		0	0	0	0	0	0	0
Perca flavescens	')		Ŭ	•	Ŭ	0	Ŭ	0	Ŭ
Brook Stickleback	0		0	0	0	0	5	0	0
Culaea inconstans	Ŭ		U	0	Ŭ	0	5	0	0
Brown Bullhead	3j		0	0	0	1j	0	0	0
Ameiurus nebulosus	- 55		U	0	Ŭ	, i	U	0	0
Bluntnose Minnow	1a		0	0	0	1a	0	0	0
Pimephales notatus	10		0	0	Ŭ	Ta	0	0	0
Emerald Shiner	0		0	4	0	0	0	0	0
Notropis atherinoides	Ŭ		Ŭ	т	U U	0	v	0	, v
Golden Shiner	0		0	0	0	2a	0	0	0
Notemigonus crysoleucas	-		U	0	U U	20	U	0	Ŭ

Table 10: Fish species captured during 2015 site investigation

Notes: j=juvenile; a=adult; yoy=young of the year

Table 11: Preliminary Environmental Management Strategy Recommendations

Slough Forest/Vernal Pool ComplexAvoid: Required for residential and commercial development; preferable option for servicing and transportation.PSW features have been identified and tentatively confirmed by the MNRF.Pool Complex Floodplain Wetlands along east creekMinimize: Where servicing and transportation impacts are unavoidable, steps should be taken to minimize the spatial extent and duration of impact.PSW features have been identified and tentatively confirmed by the MNRF.Policy Trigger: PS: Provincially Significant Wetland)Mitigate/Rehabilitate: Where servicing and transportation impacts are unavoidable, steps should be taken to mitigation/rehabilitate impacted polygons in Policy 31, 32PSW features, but compensate: Not typically an option for PSW features, but compensation for residualPSW features have been identified and tentatively confirmed by the MNRF.Slough Policy Trigger: PS: Provincially Significant Wetland)Mitigate/Rehabilitate: Where servicing and transportation impacts are unavoidable, steps should be taken to mitigation/rehabilitate impacted features.PSW features, but compensate: Not typically an option for PSW features, but compensation for residualPSW features, but compensation for residualSlough Policy Trigger: PS: 20, 21, 23, 24, 20, 21, 23, 24, 20, 21, 23, 24,Compensate: Not typically an option for PSW features, but compensation for residualPSW features, but compensation for residualSlough PSW biolidife.Compensate: Not typically an option for PSW features, but compensation for residualPSW features, but compensation for residualSlough P	Natural Heritage Element and Preliminary Policy Trigger(s)	Mitigation Hierarchy Recommendations	Preliminary Environmental Management Strategy Considerations
impacts resulting from servicing and transportation should be	Slough Forest/Vernal Pool Complex Floodplain Wetlands along east creek Policy Trigger: PPS: Provincially Significant Wetland) Municipal: EPA Associated polygons in Map 2: 3, 4, 5, 20, 21, 23, 24,	 and commercial development; preferable option for servicing and transportation. Minimize: Where servicing and transportation impacts are unavoidable, steps should be taken to minimize the spatial extent and duration of impact. Mitigate/Rehabilitate: Where servicing and transportation impacts are unavoidable, steps should be taken to mitigation/rehabilitate impacted features. Compensate: Not typically an option for PSW features, but compensation for residual impacts resulting from servicing 	 MNRF. There may be some room for small adjustments to the tentative boundary; where this is required, adjustments should be as minimal as possible. Buffers to the PSW boundary will range between 15 and 30 meters, and/or that required to ensure vernal pools and their function are not impacted by adjacent development; adjacent lands uses will also be considered during the prescription of buffer dimensions. Enhancement areas within PSW boundaries where features and/or functions have been disturbed in the past (e.g. recreate vernal pools where topography has been altered, clear/control patches of invasive species, identify areas of potential forest decline and establish an understory of native tree species, etc.) Establish linkages (both ecological and anthropogenic) among the PSW units to ensure core features are connected and permeable for small and

Watercourses and Fish Habitat Policy Trigger: Fisheries Act: Fish habitat PPS: Fish habitat, watercourse, valley land Conservation Authorities Act General Regulation	Avoid: Impacts from development should be avoided where possible. Minimize: Where servicing and transportation impacts are unavoidable, steps should be taken to minimize the spatial extent and duration of impact. Mitigate/Rehabilitate: Where servicing and transportation impacts are unavoidable, steps should be taken to mitigation/rehabilitate impacted features. Compensate: Where servicing and transportation impacts are unavoidable, steps should be taken to servicing	Watercourses 1 and 2 are largely within the PSW boundaries on the property and will therefore be maintained. Where watercourse crossings are necessary, the location(s) that minimize potential impacts should be assessed based on existing habitat condition, associated floodplain, and associated vegetation communities in the adjacent valley land. Where impacts are unavoidable, mitigation and/or compensation strategies will be developed in consultation with the NPCA, and submitted to the Department of Fisheries and Oceans for permitting if fish or fish habitat are impacted.
Features in Map 2: WC1, WC2	taken to compensate for impacted habitat.	
Species at Risk/Species at Risk Habitat (Endangered and Threatened Species)	Avoid: Impacts resulting from residential and commercial development should be avoided; preferable option for servicing and transportation. Minimize: Where impacts from development are unavoidable, the spatial extent and duration	 Provincially Endangered or Threatened Species at Risk detected during the 2015 surveys include: Barn Swallow Chimney Swift Acadian Flycatcher

Policy Trigger: PPS (Endangered Species Act) Municipal (Environmental Conservation Area)	of impact should be minimized, particularly where it relates to occupied or potential habitat. Mitigate/Rehabilitate: Where servicing and transportation impacts are unavoidable, steps should be taken to mitigation/rehabilitate impacted features. Compensate: Not typically an option for species at risk habitat, but compensation for residual impacts resulting from servicing and transportation should be considered.	 Nesting habitat for Barn Swallow and Chimney Swift were not documented on the site. If nesting habitat for these species is found and will be impacted, an ESA permit will be required. The occurrence of Acadian Flycatcher included an individual that was documented in one of the isolated Willow Deciduous Swamp features (polygon 20, Map 2); the individual was not documented on subsequent site visits (either during follow-up breeding bird surveys or ELC site investigation) and therefore the feature was note considered breeding habitat, and a management plan is not required for this species. Other species that were not detected, but have potential to be present include: White Wood Aster Round-leaved Greenbrier If these species are documented on the subject property during scoped recommendations for block plan applications, the location will be georeferenced and a contingency plan will be required if there is potential impact to the species and/or its habitat.
Old growth/Mature Forest	Avoid: Where possible impacts from development should be avoided.	The bulk of old growth/mature forest will be protected within the PSW. Where other old-growth areas are present on the site they should be protected; this could include individual tree protection.
Policy Trigger: PPS (Significant Wildlife Habitat) Municipal	Minimize: Where impacts are unavoidable, the spatial extent and duration of impact should be minimized.	Where development blocks are proposed on and/or adjacent to old- growth trees outside of the PSW, setbacks should be large enough to ensure the trees roots are not impacted.
(Environmental		Buffers to old growth/mature forest areas will ensure appropriate spatial separate is provided to reduce impacts to trees.

Conservation	Mitigate/Rehabilitate: Where	
Area)	impacts are unavoidable, best	Compensation for old-growth forest is not feasible.
	management practices will be	
Affected	required to ensure the spatial	
polygons: 5, 27,	extent of impact is contained,	
32 and	and efforts to restore to pre-	
potentially	disturbance condition are	
localized areas	planned.	
within 12, 13,		
29, 30, and 46	Compensate: Not feasible for old	
	growth/mature forests.	
Shrub/Early	Avoid: Where possible, impacts	Shrub/Early successional bird habitat is present in areas that will be
Successional	should be avoided.	proposed for development. Therefore, the features and characteristics of
Bird Habitat	_	this habitat type will be a priority for creation within PSW buffers,
	Minimize: Where impacts are	parkland blocks, and/or restoration planting along the Con-rail Drain.
Policy Trigger:	unavoidable, the spatial extent	Specific aspects of the plan will be developed with NPCA later in the
PPS (Significant	and duration of impact should	Secondary Plan process.
Wildlife Habitat)	be minimized.	
Municipal	Mitigate/Rehabilitate: Where	
(Environmental	impacts are unavoidable, the	
Conservation	best management practices	
Area)	should be undertaken to ensure	
A.C	the spatial extent of impact is	
Affected	contained, and efforts to restore	
polygons: 9, 11,	to pre-disturbance conditions	
16, 28	are planned.	
	Compensate: High potential for	
	on-site restoration and	
	incorporating into design of	

	parks, greenspace, and other open space blocks.	
Bat Maternity Roost Habitat	Avoid: Impacts will likely need to be avoided where bat maternity roosts are document,	Surveys for Bat Maternity Roost habitat were undertaken during the leaf off season (November 11 th , 2015). Updates will be provided as an addendum to the preliminary characterization report. Individual trees
Policy Trigger: PPS (Significant Wildlife Habitat)	particularly if the roosts are used by Bat SAR.	that meet the criteria for bat maternity roosts will be identified and georeferenced. Cavity trees are present in abundance across all wooded features in the study area. Follow up with MNRF will be require to scope
Municipal (Environmental Conservation Area)	Minimize: Impacts to bat maternity roost trees will be considered on a cases by case basis.	acoustic monitoring for Bat Species at Risk, and determination of SAR habitat and required overall benefit permitting where impacts are anticipated.
	Mitigate/Rehabilitate: Where	
Affected polygons: 5, 27,	indirect impacts are likely, disturbances can be minimized	
32 and potentially	through individual tree setbacks.	
localized areas	Compensate: Compensation for	
within 6,12, 13,	loss of bat maternity roost trees	
29, 30, and 46	is not feasible, other options that result in the creation of bat roost habitat can be explored.	
Mast Tree	Avoid: Concentration areas of	Surveys for Mast Tree habitat outside of the PSW/EPA areas were
Habitat	mast trees (e.g. Oaks and Hickories) should be protected.	undertaken on November 11 th , 2015. The majority of Mast Tree habitat will be protected in the PSW/EPA areas. Outside of the PSW/EPA areas,
Policy Trigger:		mast tree species including various species of Oak and Hickory are most
PPS (Significant	Minimize: Where impacts are	abundant in the features that have been classified as Fresh – Moist Oak –
Wildlife Habitat)	unavoidable, the extent of tree removal should be minimized.	Maple – Hickory Deciduous Forest (polygons 30, 36, 38, 48; Map 2). Where individual and/or groups of these trees are present, they can be
Municipal		incorporated into buffers, linkage areas, and/or preserved as individual
(Environmental		trees.

Conservation	Mitigate/Rehabilitate: Where	
Area)	indirect impacts are likely,	
/ (icu)	disturbances can be minimized	
Affected	through appropriate setbacks to	
polygons: 5, 27,	protect individual trees and their	
32 and	root systems.	
potentially		
localized areas	Compensate: Where mast trees	
within 30, 36,	are removed, an appropriate	
38, 46	compensation plan should be	
	developed based on the	
	size/age of each tree.	
Amphibian	Avoid: Impacts to amphibian	The majority of amphibian woodland breeding habitat will be protected
Breeding	breeding habitat are to be	in the PSW. Other small vernal ponds exist across the property outside of
Habitat	avoided within the PSW, and	the PSW boundary. These areas have been documented as part of the
(Woodland	should be avoided where	characterization, and where impacts are unavoidable, opportunities for
type)	possible outside of the PSW.	enhancement of existing habitat will be explored; as well, opportunities
		for habitat recreation on-site will be explored in collaboration with the
Policy Trigger:	Minimize: Where unavoidable,	NPCA.
PPS (Significant	the spatial extent and duration	
Wildlife Habitat)	of impacts to amphibian	
	breeding habitat should be	
Municipal	minimized.	
(Environmental		
Conservation	Mitigate/Rehabilitate: Where	
Area)	impacts are unavoidable, best	
	management practices should	
Affected	be undertaken to ensure the	
polygons:	spatial extent of impact is	
3, 4, 5, 20, 21,	contained, and efforts to restore	
23, 24, 27, and	to pre-disturbance conditions	
32; potential for	are planned.	

some areas		
within polygons	Compensate: Opportunities for	
11 and 12	vernal pool	
	creation/enhancement can be	
	explored, both as a method to	
	address potential loss of ponds	
	outside the PSW, and to	
	enhance ponds within the PSW.	
Habitat for	Avoid: Impacts to Schreber's	Currently, Schreber's Aster has only been documented in PSW areas and
Provincially	Aster are to be avoided within	therefore will be protected. If it is found in other locations, the area will be
Rare Species	the PSW, and should be avoided	georeferenced. Where the species occurs outside of protected areas, a
and/or Species	where possible outside of the	salvage and relocation plan will be developed in collaboration with the
of Special	PSW.	NPCA.
Concern		
(Schreber's	Minimize: Where unavoidable,	
Aster)	the spatial extent and duration	
Aster	of impacts the species habitat	
Policy Trigger:	should be minimized.	
PPS (Significant		
Wildlife Habitat)	Mitigate/Rehabilitate: Where	
What is a start of the start of	impacts are unavoidable, best	
Municipal	management practices should	
(Environmental	be undertaken to ensure the	
Conservation	spatial extent of impact is	
Area)	contained, and efforts to restore	
	to pre-disturbance conditions	
Affected	are planned. Additionally, plants	
polygons: 27, 32	should be salvage and relocated	
	to suitable habitat.	
	Compensate: Where required,	
	salvaged plants can be used for	

	restoration and enhancement of degraded areas within the PSW, or within restoration areas identified elsewhere on site.	
Habitat for Provincially Rare Species and/or Species of Special Concern (Honey-locust) Policy Trigger: PPS (Significant Wildlife Habitat) Municipal (Environmental Conservation Area) Affected polygons: 31	Avoid: Impacts to Honey-locust are to be avoided within the PSW, and should be avoided where possible outside of the PSW. Minimize: Where unavoidable, the spatial extent and duration of impacts the species habitat should be minimized. Mitigate/Rehabilitate: Where impacts are unavoidable, best management practices should be undertaken to ensure the spatial extent of impact is contained, and efforts to restore to pre-disturbance conditions are planned. Additionally, plants should be salvage and relocated to suitable habitat. Compensate: Where required, salvaged plants can be used for	Currently, Honey-locust has only been documented in PSW areas and therefore will be protected. If it is found in other locations, the area will be georeferenced. Where the species occurs outside of protected areas, a tree preservation study will be completed to determine the feasibility of avoiding impacts. Where impacts are unavoidable, a compensation plan will be developed in collaboration with the NPCA.
	restoration and enhancement of degraded areas within the PSW, or within restoration areas identified elsewhere on site.	

Habitat for	Avoid: Impacts to Eastern Wood-	Large areas of Eastern Wood-Pewee habitat will be protected within the
Provincially	Pewee breeding habitat within	PSW areas. Other woodland areas that support this species could also be
Rare Species	the PSW are to be avoided, and	protected and/or prioritized for compensation/enhancement.
and/or Species	should be avoided where	Additionally, as this species will use smaller woodland elements, the
of Special	possible outside of the PSW.	feasibility of retaining groups of trees as woodland elements will be
Concern		explored during the Secondary Plan process.
(Eastern Wood	Minimize: Where impacts to	
Pewee)	Eastern Wood-Pewee habitat are	
i cwcc,	unavoidable, the spatial extent	
Policy Trigger:	and duration of impact should	
PPS (Significant	be minimized.	
Wildlife Habitat)		
Whathe Habitaty	Mitigate/Rehabilitate: Where	
Municipal	impacts are unavoidable, best	
(Environmental	management practices should	
Conservation	be undertaken to ensure the	
Area)	spatial extent of impact is	
	contained, and efforts to restore	
Affected	forest understory areas to pre-	
polygons: 5, 6,	disturbance conditions are	
18, 19, 27	planned.	
	Compensate: Compensation for	
	Eastern Wood-Pewee habitat is	
	not feasible in the short-term.	
Habitat for	Avoid: Impacts to Wood Thrush	Large areas of Wood Thrush habitat will be protected within the PSW
Provincially	breeding habitat within the PSW	areas. Other woodland areas that support this species may also be
Rare Species	are to be avoided, and should be	protected and/or prioritized for compensation/enhancement.
and/or Species	avoided where possible outside	
of Special	of the PSW.	This species is unlikely to use small woodland patches, and/or wooded
Concern		areas in proximity to developed land, therefore larger buffers around high
(Wood Thrush)		

Policy Trigger: PPS (Significant Wildlife Habitat) Municipal (Environmental Conservation Area) Affected polygons: 1, 4, 5, 6, 11, 12, 13, 19, 24, 27	Minimize: Where impacts to Eastern Wood-Pewee habitat are unavoidable, the spatial extent and duration of impact should be minimized. Mitigate/Rehabilitate: Where impacts are unavoidable, best management practices should be undertaken to ensure the spatial extent of impact is contained, and efforts to restore forest understory areas to pre- disturbance conditions are planned.	quality habitat areas may be required for PSW and other areas that are retained.
	Compensate: Compensation for Wood Thrush habitat is not feasible in the short-term.	
Habitat for Provincially Rare Species and/or Species of Special Concern (Snapping Turtle) Policy Trigger: PPS (Significant Wildlife Habitat)	Avoid: Impacts to Snapping Turtle breeding habitat within the PSW are to be avoided, and should be avoided where possible outside of the PSW. Minimize: Where impacts to Snapping Turtle breeding habitat are unavoidable, the spatial extent and duration of impact should be minimized.	Snapping Turtle habitat may be present in larger ponds on the property. One sighting (assumed to be a Snapping Turtle) was observed in polygon 24 located near the Welland River. This feature is part of the PSW, and therefore will be retained. Off-site linkage to the Welland River and Power Canal should be maintained, as should linkage among pond habitats within the proposed development area.

Municipal	Mitigate/Rehabilitate: Where	
(Environmental	impacts are unavoidable, best	
Conservation	management practices should	
Area)	be undertaken to ensure the	
	spatial extent of impact is	
Affected	contained, and efforts to restore	
polygons:	pre-disturbance conditions are	
24 (potential)	planned. Additionally, linkage	
	among wetland feature and the	
	Welland Canal should be	
	maintained and/or enhanced.	
	Compensate: Where impacts are	
	unavoidable and cannot be	
	mitigated, compensation for	
	impacted Snapping Turtle	
	habitat will be considered and	
	opportunities identified.	
Reptile	Avoid: The location of reptile	Reptile hibernacula were not observed during site visits, in part because
Hibernacula	hibernacula should be avoided if	they are very difficult to detect. If hibernacula are identified during
	documented.	subsequent site visits, the location will be documented and a
Policy Trigger:		contingency plan will be developed in collaboration with the NPCA.
PPS (Significant	Minimize: Given that reptile	
Wildlife Habitat)	hibernacula are very difficult to	
	detect, a contingency plan will	
Municipal	be developed to minimize	
(Environmental	impacts to reptile hibernacula	
Conservation	should they be found.	
Area)		
	Mitigate/Rehabilitate: Where	
Affected	indirect impacts to reptile	
polygons:	hibernacula are unavoidable,	

Potentially All	best management practices should be undertaken to ensure the spatial extent of impact is contained, and efforts to restore pre-disturbance conditions are planned. As noted above, a contingency plan will be prepared in the event that reptile hibernacula is encountered. This will include spatial setbacks, and linkage to protected natural areas. Compensate: Where impacts are unavoidable, reptile hibernacula can be recreated on-site.	
Deer Winter Congregation Areas Policy Trigger:	Avoid: Impacts to deer wintering habitat should be avoided within the PSW, and other woodland areas where possible.	Deer winter congregation habitat will be largely protected within the PSW areas. Protection of these areas, associated buffers, and linkage protection/creation will ensure that core areas of this habitat are protected and connectivity is maintained.
PPS (Significant Wildlife Habitat) Municipal	Minimize: Where impacts are unavoidable, the extent of impacted forest should be minimized, and avoid core areas	
(Environmental Conservation	within the identified habitat.	
Area)	Mitigate/Rehabilitate: Where impacts are unavoidable, linkage	
Affected polygons:	among core areas of deer wintering habitat should be established.	

All polygons		
with wooded	Compensate: On-site	
habitat	compensation for deer	
	wintering habitat is not feasible.	
Rare	Avoid: Impacts to rare	Rare vegetation types include:
Vegetation	vegetation community types	Pin Oak Mineral Deciduous Swamp Type (SWD1-3): S2S3
Communities	should be avoided.	Buttonbush Mineral Thicket Swamp Type (SWT2-4): S3
		Gray Dogwood Mineral Thicket Swamp Type (SWT2-9): S3S4
Policy Trigger:	Minimize: Where impacts cannot	
PPS (Significant	be avoided, the extent and	The Pin Oak Mineral Deciduous Swamp Type is primarily associated with
Wildlife Habitat)	duration of disturbance should	the PSW and will therefore be protected. There are other polygons
	be minimized.	outside of the PSW boundary that have elements of this vegetation type
Municipal	Mitigata (Dababilitata,)M/baya	(e.g. polygon 12). Where this feature type will be impacted, a salvaging
(Environmental	Mitigate/Rehabilitate: Where	and relocation plan should be developed for provincially or regionally rare plant species associated with the feature. Relocation should target
Conservation	impacts are unavoidable, best management practices adjacent	areas that will be protected, either within the PSW as enhancement
Area)	to rare vegetation community	and/or in other areas that are targeted for on-site
Affected	types should be undertaken.	compensation/restoration.
polygons: 3, 4,	Additionally, if these areas have	
5, 6, 27, 32	a high likelihood of being	The Buttonbush Mineral Thicket Swamp communities are associated with
5, 0, 2, , 52	impacted, ensure representative	the PSW and will be therefore be protected. If other features are found
	species are salvaged and use for	during additional field investigations (e.g. within polygon 12), they will be
	restoration and enhancement	identified. As above, where this feature type is impacted, a salvaging and
	elsewhere.	relocation plan will be prepared for any provincially or regionally rare
		plant species and wildlife that are present.
	Compensate: Where impacts are	
	unavoidable, some on-site	The Gray Dogwood Mineral Thicket Swamp communities are associated
	compensation work may be	with non-PSW wetlands areas (example as inclusions in polygon 6). Where
	feasible for rare vegetation	this type of habitat is impacted, the extent of loss can be documented;
	communities. As above, a	the extent of loss will be incorporated into the buffer planting plans and
	salvaging strategy should be	on-site enhancement/compensation plans, with attempts to balance
	developed for such cases.	impacts.

		Direction for the salvaging and relocation plan will be developed in collaboration with the NPCA.
Other	Avoid: Where feasible, non-PSW	Areas of Green Ash, Willow, and Oak swamp exist outside of the PSW
Wetlands (e.g.	wetland features should be	boundary. These areas are regulated by the Region of Niagara and the
Green Ash	considered for protection.	NPCA, therefore will require negotiations regarding removal. To address
Swamp, Willow		potential impacts associated with removal of these features,
Swamp, Oak	Minimize: Where unavoidable,	opportunities should be explored to enhance the PSW areas, identify
Swamp)	the spatial extent of impact to non-PSW wetlands should be	potential on-site compensation areas, and identify linkage corridors among features that are retained. On-going collaboration with the NPCA
Policy Trigger:	minimized.	will be required to identify how these features will be managed as part of
Municipal		the Secondary Plan.
(Environmental	Mitigate/Rehabilitate: Where	
Conservation	non-PSW areas are protected,	
Area)	appropriate buffers should be	
	implemented to ensure	
Affected	protection of their features and	
polygons:	functions. Additionally, where	
2, 6, 8, 10, 12,	retained, some	
17, 18, 26, and	enhancement/rehabilitation	
29	may be required.	
	Compensate: Where impacts	
	result in loss of these features,	
	the potential for compensation	
	through enhancement of on-site	
	PSW features and recreation of	
	similar habitats should be	
	considered.	
Deciduous	Avoid: The highest quality	Areas of deciduous woodland and cultural woodland exist outside of the
Forest and	deciduous forest and woodland	PSW boundary. These areas are regulated by the Region of Niagara and
Woodlands	areas should be protected.	the NPCA, therefore will require negotiations regarding removal. To

outside of PSW boundaries Municipal (Environmental Conservation Area) Affected polygons: 1, 13, 14, 15, 19, 22, 31, 34, 35, 36, 37, 38, 40, 46, and 47	Minimize: Where impacts are unavoidable, steps should be taken to minimize the spatial extent and duration of impact of these features. Mitigate/Rehabilitate: Where forested and woodland areas are protected, appropriate buffers should be implemented to ensure protection of their features and functions. Additionally, where retained,	address potential impacts associated with removal of these features, opportunities should be explored to enhance the PSW areas, identify potential on-site compensation areas, and identify linkage corridors among features that are retained. On-going collaboration with the NPCA will be required to identify how these features will be managed as part of the Secondary Plan.
	enhancement/rehabilitation may be required. Compensate: Where impacts result in loss of these features, the potential for compensation through enhancement of on-site PSW features and restoration of similar habitats should be considered.	

Regionally	Avoid: Where regionally rare	The following table identifies regionally rare plant species that were					
Rare Plants.	plant species are present in the	documented on the subject property. Where species are found in features					
	PSW, impacts will be avoided.	outside of the PSW areas, and/or other features that end up being protected, recommendations for salvaging and relocation can be					
	Minimize: Where regionally rare of species are present outside of the PSW, impacts to these species should be minimized	developed.					
		Common Name	Scientific Name	Within PSW	Outside PSW		
	through maintaining habitat around locations where these	Pin Cherry	Prunus pensylvanica	х			
	species are abundant. Mitigate/Rehabilitate: Where impacts are unavoidable, regionally rare species should be salvaged and replanted in appropriate habitat that will be protected on-site. In this regard, attention should be given to regionally rare species that occur outside of the PSW.	Limestone Bittercress	Cardamine douglassii	x			
		Leathery Knotweed	Polygonum achoreum	х			
		Asa Gray Sedge	Carex grayi	х			
		Pale Sedge	Carex pallescens	х			
		Schreber's Aster	Eurybia schreberi	х			
		Blunt-leaved Bedstraw	Galium obtusum	х			
		Mountain Holly	llex mucronata	х			
		Honey-locust	Gleditsia triacanthos	х			
		Smooth Gooseberry	Ribes hirtellum	х			
		Drooping Woodreed	Cinna latifolia	х	х		
		Necklace Sedge	Carex projecta	х	х		
	Compensate: Where impacts are unavoidable, and plant relocation is required, enhancement and habitat restoration maybe necessary to create the appropriate habitat conditions for the respective regionally rare plants.	Swamp Red Currant	Ribes triste		х		
		Carolina Spring Beauty	Claytonia caroliniana		х		
		Creeping Spike-rush	Eleocharis palustris		х		
		Red-tinge Bulrush	Scirpus microcarpus		х		
		Finely-nerved Sedge	Carex leptonervia		х		
		Yellow Sedge	Carex flava		х		
		Canada Pussytoes	Antennaria howellii ssp. canadensis		х		
		Elk Sedge	Carex garberi		х		
		Drooping Sedge	Carex prasina		х		

		Le Conte's Violet	Viola affinis	x	
		American Plum	Prunus americana	х	
		Alderleaf Buckthorn	Rhamnus alnifolia	х	
		Woolly Sedge	Carex pellita	x	
Regionally Rare Wildlife Species	Rare Wildlifewildlife species are present in the PSW, impacts will be avoided.Flycatcher (Polygon 20), Yellow-throated Vireo (P and Tufted Titmouse (Poly 5, 6, 11, 12, 27).		20), Yellow-throated Vireo (Polygon	olygon 11, 14, 15, 27),	
	Minimize: Where regionally rare species are present outside of the PSW, impacts to these species should be minimized	individual on one oc	casion was observed (Polygon 20). T eding on the property and managem	his suggests the	
	through maintaining habitat around locations where these species are abundant.	itat Habitat for Yellow-throated Vireo and Tufted Titmouse will		ned features may areas that	
	Mitigate/Rehabilitate: Appropriate buffers adjacent to protected areas where these species have been documented will help to reduce impacts.	are determined to be	e old growth and/or have bat materi	nity roosts.	
	Where impacts are unavoidable, the spatial extent of impacts should be restored as soon as				

possible for temporary disturbances.	
Compensate: Compensation for Regionally Rare wildlife species habitat that were documented on site is not feasible.	

Table 12. Summary of Impacted Area (ha) for Existing Landcover/Vegetation Communities within the study area

Community Series	ELC Code (Community Series)	Existing Area (ha)	Developed Area (ha)	Retained Area (ha)
Anthropogenic	ANTH	3.37	2.85	0.52
Cultural Meadow	CUM	9.76	8.45	1.31
Cultural Plantation	CUP	0.33	0.33	0.00
Cultural Thicket	CUT	23.53	22.60	0.93
Cultural Woodland	CUW	44.78	33.39	11.39
Deciduous Forest	FOD	6.62	2.34	4.28
Deciduous Swamp (Non-PSW)	SWD	29.90	24.40	6.41
Deciduous Swamp (PSW)	SWD	75.30	1.30	73.16
Total		193.67	95.66	98.01

Features and Elements Recommended for Protection	Summary from Impact Assessment	Recommended Action
Environmental Protection Areas (EPA), which includes the Niagara Peninsula Slough Forest Provincially Significant Wetland (PSW)	All areas that have been identified as Provincially Significant Wetland EPA have been protected. Additionally, buffers that vary depending on proposed land use have been prescribed: 30m for most residential and commercial areas; 15m plus an additional 15m special policy area adjacent to the limit of the buffer for the education/innovation lands proposed on the east side of the subject area.	The extent of the Environmental Protection Area should be staked and surveyed by an Ontario Land Surveyor, and buffer areas demarcated in the field.
Endangered/Threatened Species at Risk and their associated habitat	Impacts to habitat for endangered and/or threatened species is not anticipated. Some areas on the subject property could provide nesting habitat for Barn Swallow (e.g. culverts).	Prior to submission of plans of subdivision, all culverts should be surveyed following standard protocols to determine if culverts are being used as nesting habitat by Barn Swallow.
The permanent watercourse with natural channel present on the east and south side of the property (Watercourses 1 and 2)	Impacts to aquatic resources in watercourses 1 and 2 are not anticipated.	Improvements to channel design and addition of coarse substrates could help to improve fish habitat.
Non-PSW Wetlands	Approximately 24 ha of non-PSW wetland is proposed for development. The vegetation types impacted include Oak Mineral Deciduous Swamp (SWD1), Green Ash Mineral Deciduous Swamp (SWD2-2), and Willow Mineral Deciduous Swamp (SWD4-1)	The preparation of compensation/enhancement for non- PSW wetlands has been proposed as means to identify opportunities to mitigate impacts associated with these features. Enhancement of wetland areas that are protected (i.e. functional improvements), creation of wetland elements in buffer areas (that aren't currently wetland), and creation of wetland elements on storm water management blocks will help to mitigate impacts associated with loss of these wetlands. Residual impacts (i.e. those not addressed through mitigation, on-site

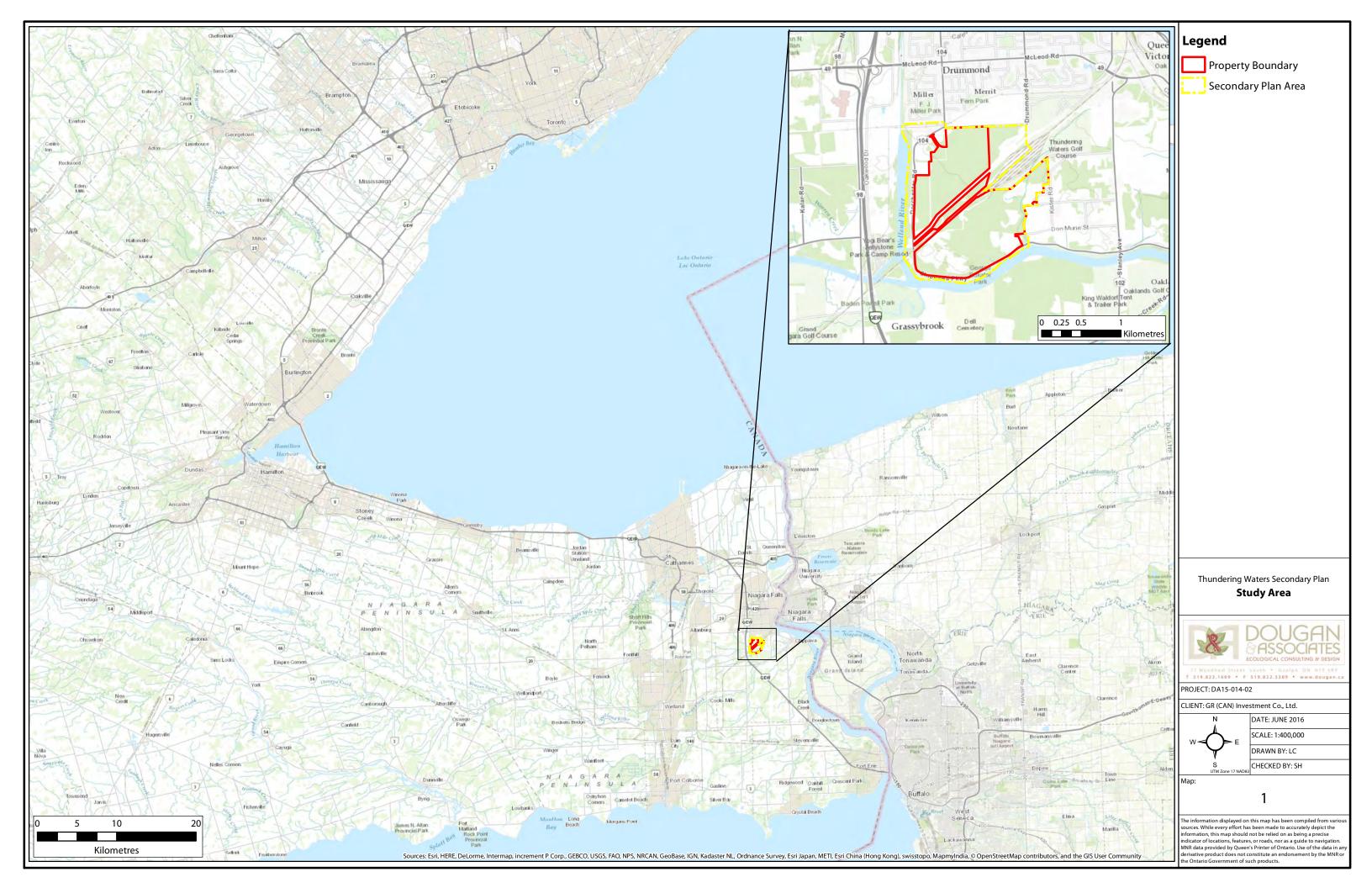
		compensation, and/or restoration/enhancement) could be addressed through offsite compensation. The terms and conditions of such a compensation/enhancement plan should be negotiated with the NPCA. Prior to submission of plans of subdivision, compensation plans should be prepared that address impacts associated with removal of amphibian habitat. Specific details regarding restoration, compensation, and monitoring should be addressed during the preparation of subdivision or site plans. This includes removal of wetland features associated with blocks A02, A04, A09, B01, B02, B06, B08, B09, and B13.
Old growth/Mature Forest Habitat	Much of the old growth and mature forest habitats on the property are protected within the PSW/EPA lands. An area of old growth Oak forest is located in block A11 (ELC polygon 46); this area is partially protected by the 30m PSW/EPA buffer; areas outside of the buffer would not be protected. Individual mature trees are also present in blocks A06 and B13.	Old growth forest elements associated with Blocks A06, A11, and B13 should be protected and/or integrated into the proposed subdivision design using best management practices to avoid impacts to individual trees. As part of the submission of plans of subdivision for these blocks, a tree saving plan should be prepared and submitted to document the specific location of trees that will be protected and those that will be removed. The tree saving plan should follow the requirements outlined in section 1.36 of the Niagara Region Tree and Forest Conservation Bylaw (Bylaw No. 30-2008).
Bat Maternity Roost Habitat	Much of the forested areas that have potential to provide bat maternity roost habitat are within the PSW lands that will be protected. Across the study area, there are a number of wooded areas outside of the protected PSW/EPA blocks that meet criteria for bat roost habitat and may require further field investigation to determine if they are being used by SAR bats.	Cavity trees that provide habitat for SAR bat species are protected under the Endangered Species Act. Given the recent listing and updated protocols for managing SAR bat habitat, it is recommended that the MNRF be consulted prior to development to better understand how potential SAR bat habitat should be managed. The most recent bat habitat survey guidelines released in May 2016 protocols indicate that acoustic monitoring be conducted to determine if SAR species are present, and potentially

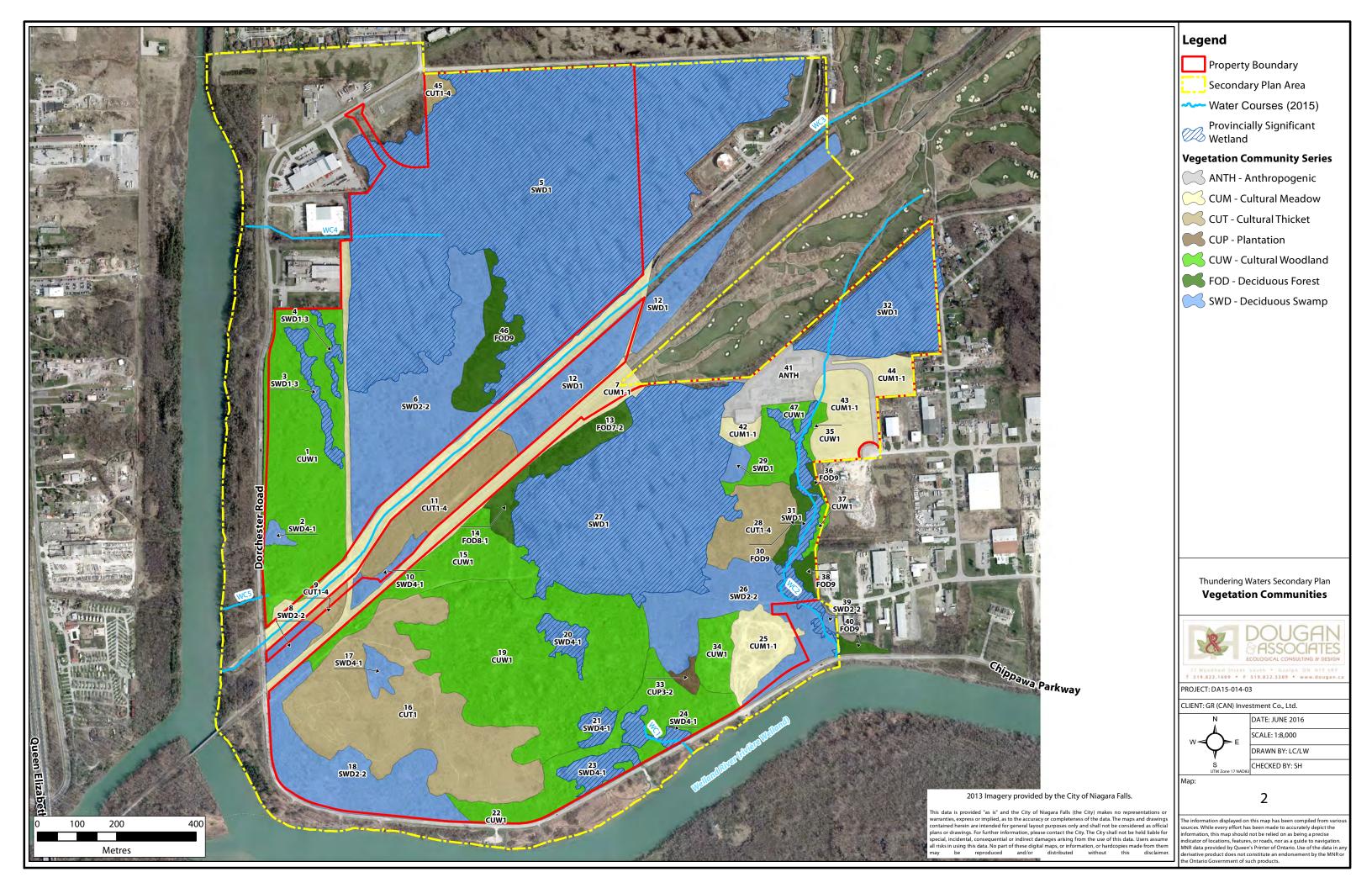
	The mean and standard error of cavity trees from a sample of 44 0.5 ha plots was 16.4 stem/ha (+/- 2.95 standard error), with higher cavity tree densities in wooded areas that were in decline.	using cavity trees as roost habitat. Based on the current cavity tree surveys, some of the wooded areas that are proposed for development have a high density of cavity trees. Where cavity trees are proposed for removal, the MNRF should be consulted As part of the submission of plans of subdivision, screening for bat maternity roost trees should be conducted in proposed development blocks A01-A04, A06, A07, A09, A10, B01, B02, B05-B07, B13, and B14; surveys should follow the Guelph District MNRF guidelines for bat and bat habitat surveys of treed habitats (MNRF 2016). Given that snag density thresholds have been met in these areas, the survey methods prescribe acoustic monitoring, and if SAR bats are detected, an Information Gathering Form will need to be submitted to the Guelph District MNRF.
Mast Tree Habitat	Much of the forested areas that have a high occurrence of mast trees (e.g. Oaks, Hickory, and Walnuts) are within the protected PSW/EPA lands and their respective buffers.	Mast trees presented in Block A11 should be protected. The trees in this particular area have old-growth characteristics, with some individual trees being over a 1 metre in diameter.
	Areas where mast trees may be impacted include: the deciduous forest feature (Polygon 46) associated with Block A11, and small patches or individual mast trees throughout other wooded areas on the property.	As part of the submission of plans of subdivision, a tree saving plan, in coordination with the recommendations for old growth areas, should be conducted to ensure important mast trees are protected, and/or appropriate methods for compensation are identified where trees will be removed.
Amphibian Breeding Habitat (Woodland Type)	Much of the forested and swamp areas that have a high occurrence of amphibian breeding habitat occur within the protect PSW/EPA lands.	Where amphibian breeding habitat is proposed for removal, habitat of similar composition and structure could be restored elsewhere on the subject property.

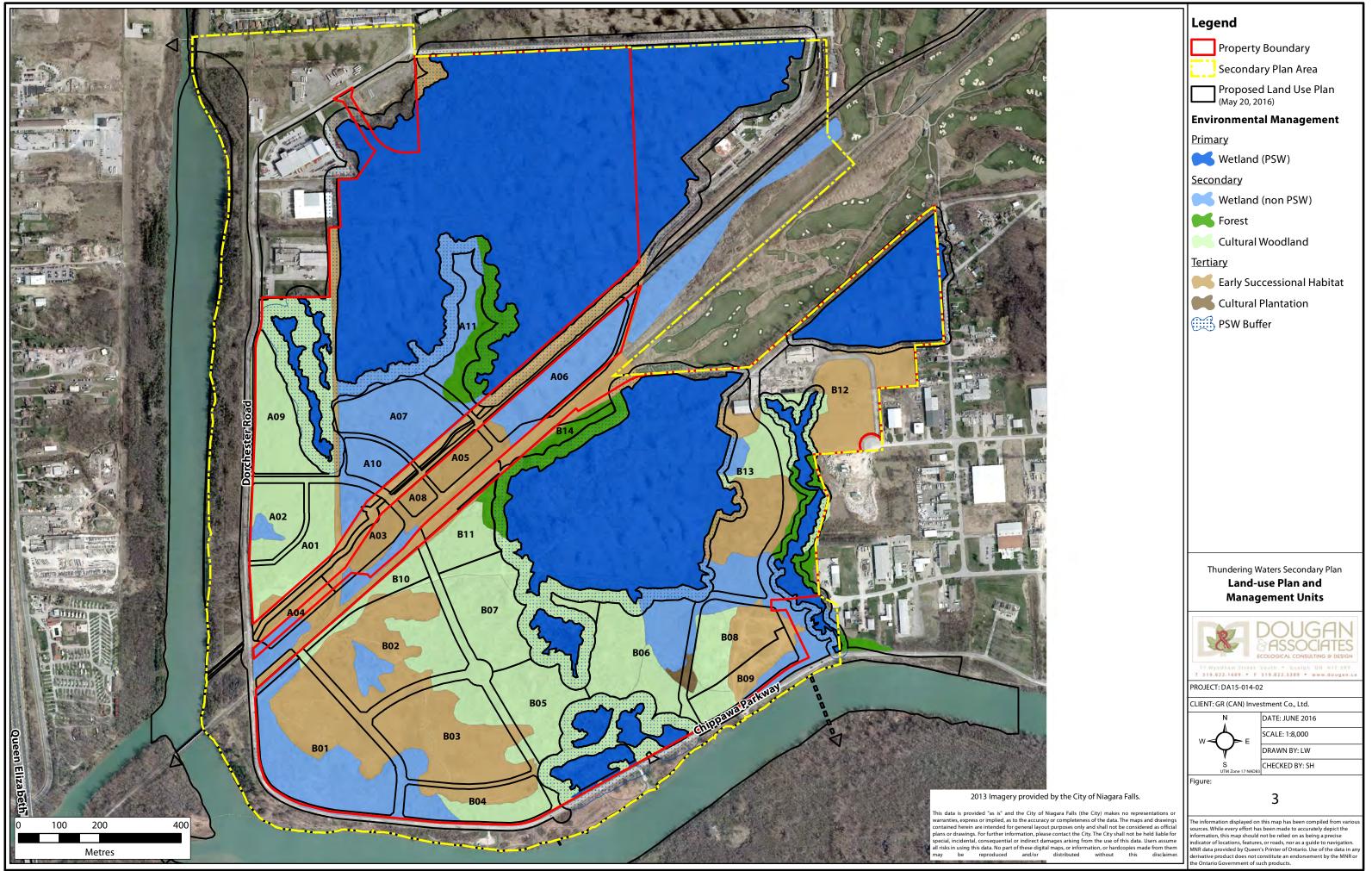
	Amphibian habitat is also present in many of the non-PSW wetland features. This includes areas within blocks A02, A04, A09, B01, B02, B06, B08, B09, B10 and B13.	As part of the submission of plans of subdivision, a habitat compensation plan should be prepared to mitigate impacts associated with removal of amphibian habitat associated with blocks A02, A04, A09, B01, B02, B06, B08, B09, B10 and B13. Specific details regarding restoration, compensation, and monitoring should be addressed during the preparation of subdivision/site plans.
Habitat for Provincially Rare and/or Species of Special Concern (Schreber's Aster, Honey Locust, Black Gum, Eastern Wood-Pewee, Wood Thrush, and Snapping Turtle)	have occurrence of Schreber's Aster, Honey Locust, Eastern Wood-Pewee Wood Thrush, and Snapping Turtle will be protected within the PSW/EPA lands.	 Where Schreber's Aster is present in habitats that are proposed for development, individual plants can be salvaged and transplanted into appropriate habitat within the protected areas. Details regarding a salvage and transplantation plan should be addressed through a compensation plan as part of the submission of plans of subdivision. Where Black Gum is present in habitats that are proposed for development, individual trees should be protected using best management practices. No action is required for the Honey Locust as its location is protected within a PSW block and associated buffers. Addressing habitat loss for Eastern Wood-Pewee and Wood Thrush will be a long-term commitment. An option to address reductions in woodland habitat is through tree compensation, enhancement of existing habitat in protected areas, tree planting in buffers, and other landuse blocks with green spaces. No specific action is required for Snapping Turtle as its habitat is protected within the PSW block and associated buffers.

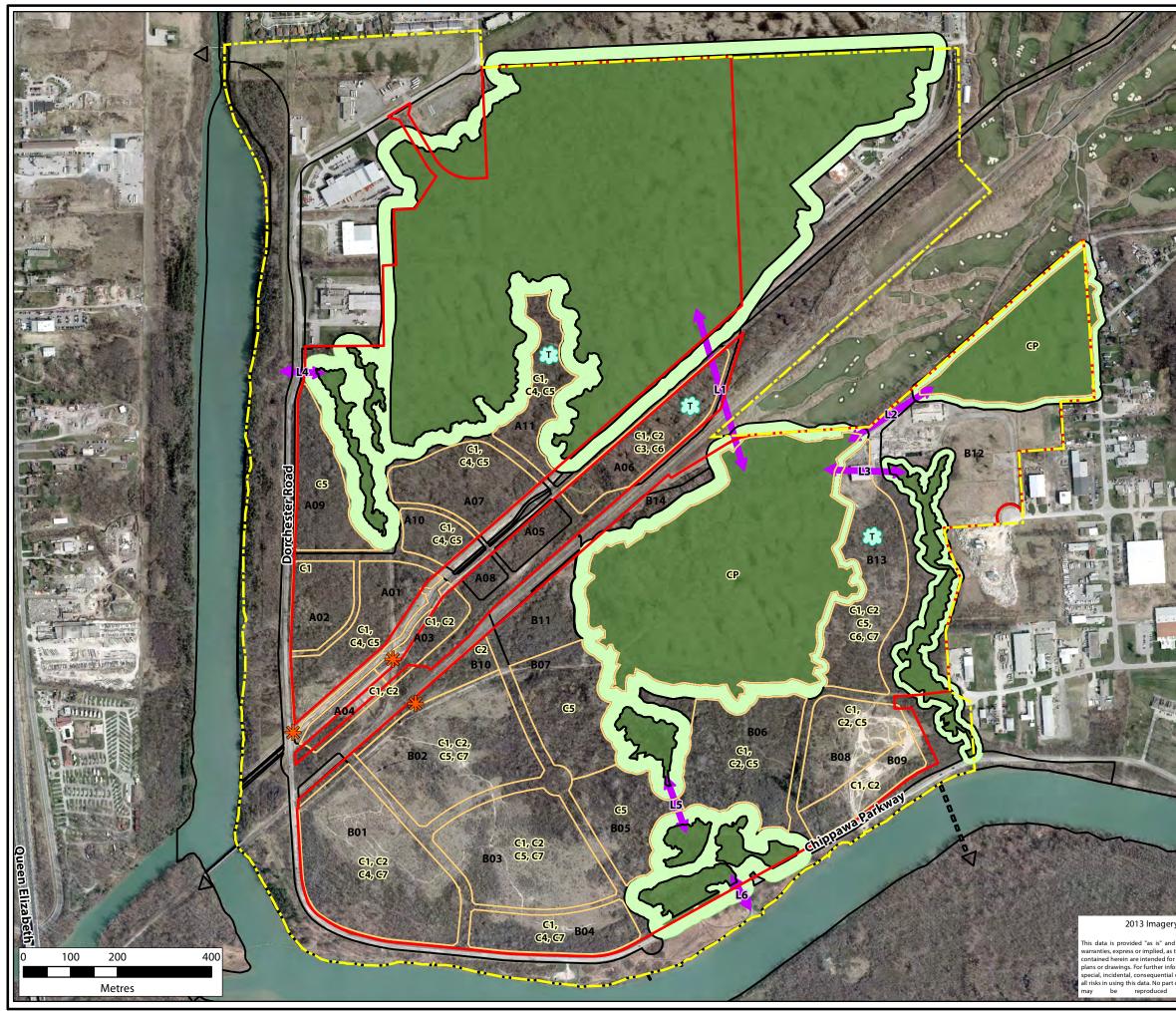
Reptile Hibernacula	Although no reptile hibernacula were observed during 2015, field investigations, it is highly probably that they are present within the study area. Impacts to hibernacula should be avoided if they are found during site investigations conducted later in the processes. As well, reptile hibernacula can be integrated into plans for buffers and/or other restoration activities.	Reptile hibernacula are difficult to detect, and may not be feasible to protect if they end up being located in development areas. Contingency plans for salvaging and relocating snakes should be developed as part of a detailed environmental management and restoration plan. Additionally, recommendations for site-specific hibernacula creation can be addressed during the development and refinement of site plans.
Deer Winter Congregation	The large areas of swamp that is protected will	No management recommended.
Areas	continue to provide wintering habitat for White Tailed Deer. The total area will be reduced, however interior areas will be maintained in the larger wetland blocks.	
Rare Vegetation Communities	The three provincially rare vegetation community types present in the study area will be largely protected within the PSW wetland areas. Some features that are proposed for removal do contain these vegetation community types. Where this is the case, impacts should be mitigation through salvaging plants and/or their propagules (seeds, rhizomes, and mature plants) and transplanted into existing features and/or restoration areas.	Soils and vegetation can be salvaged and translocated to appropriate existing habitat, enhancement areas, and/or restoration areas. Specific design recommendations can be outlined a part of a compensation plan that is submitted along with plans of subdivision.
Early Succession Breeding Bird Habitat	Early successional breeding bird habitat associated with polygons 16 and 28 are proposed for development associated with blocks B01, B02, B03, B04, and B13.	Early successional vegetation characteristics that are present within the habitats affected can be incorporated into design specifics for parks, storm water management pond areas, buffers, and other open space plantings. Specifics details can be outlined a part of a compensation plan that is submitted along with plans of subdivision.

9. MAPS











2013 Imagery provided by the City of Niagara Falls.

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10.APPENDICES

Appendix A: Terms of Reference



Niagara Falls Paradise Development

"Draft" Terms of Reference for Environmental Impact Study

Niagara Falls, Ontario

Prepared for:

GR(CAN) Investment Co., LTD

Prepared by: Amec Foster Wheeler Environment & Infrastructure Dougan & Associates C. Portt and Associates

July 2015

Project No. TP115026



THE PARADISE AT NIAGARA FALLS

"Draft" Terms of Reference Environmental Impact Assessment

Submitted to:

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Appendix A Agency Consultation

1.0 PURPOSE/SCOPE OUTLINE

The Environmental Impact Study (EIS) is an important 'building block' for the Secondary Plan. It establishes a clear understanding of the environmental resources including the area features, their function and form. Fundamental components of the EIS include:

- Delineation of the provincially significant wetland boundary;
- Assessment of identified Regional Environmental Conservation Areas;
- Characterization of terrestrial and aquatic natural heritage features and their functions;
- Characterization of sensitivities and constraints related to natural heritage features and functions;
- Identification of ecological linkages;
- Recommendations of appropriate setbacks and buffers;
- Tree preservation;
- Mitigation measures; and
- Rehabilitation, enhancement, and management strategies.

Further details specific to the purpose of the EIS associated with the on-site fisheries and terrestrial systems is offered in the following:

Fish and Aquatic Habitat

The three main watercourses that traverse portions of the study are potentially accessible to fish from the Niagara River and Welland River. Therefore there is the potential for several fish species to use the watercourses on, and adjacent to, the site for spawning. These species include muskellunge (*Esox masquinongy*), northern pike (*Esox lucius*), grass pickerel (*Esox americanus*; a threatened species), and white sucker (*Catostomus commersonii*). There is also the matter of fishes that may permanently inhabit watercourses and waterbodies within the subject property. Based on discussions with the Ontario Ministry of Natural Resources and Forestry (MNRF) and the Niagara Peninsula Conservation Authority (NPCA), fish and fish habitat must be addressed as part of the Environmental Impact Study (EIS). Any development potentially affecting a fishery, either directly or indirectly, will also be subject to the federal Fisheries Act.

Terrestrial Natural Heritage

The Niagara Region EIS Guidelines provide the outline for what is required as part of an EIS to ensure that development meets the requirements of the Greenbelt Plan, the Provincial Policy Statement, Regional Policy Plan, and local Official Plans and By-laws, the Niagara Escarpment Plan, and Niagara Peninsula Conservation Authority (NPCA) Policies and Regulations.

Through consultation with the City, the NPCA, and MNRF, the need for an EIS has been established based on the factors outlined in Table 1 which outlines the natural heritage features that trigger the need for an EIS for the proposed project.

	Table 1: EIS Triggers		
	Is an EIS	required?	
NATURAL HERITAGE FEATURE	Development involves lands within the natural heritage feature	Development involves adjacent lands	To be addressed in EIS for Subject Property
Areas identified as Environmental Protect	ion Area (EPA)		
Provincially Significant Wetland (PSW)	Development not permitted – no EIS	EIS required for development within 120 metres	Yes
Provincially Significant Life Science Area of Natural and Scientific Interest (ANSI)	Development not permitted – no EIS	EIS required within 50 metres	No
Significant Portions of the Habitat of Threatened and Endangered Species	Where habitat requirements are well defined, development not permitted – no EIS. Where habitat requirements not well defined an EIS is required	EIS required for development within 50 metres. Habitat must be defined in consultation with the MNR	Yes
Significant natural heritage features within the Greenbelt Natural Heritage System	Development not permitted – no EIS	EIS required for development within 120 metres	No
Areas identified as Environmental Conser	vation Area (ECA)		
Significant Woodlands	EIS required Tree Saving Plan required	EIS required for development within 50 metres	Yes
Significant Wildlife Habitat	EIS required	EIS required for development within 50 metres	Yes
Significant Habitat of Species of Concern	EIS required	EIS required for development within 50 metres	Yes
Critical Fish Habitat(type 1)	EIS required	EIS required for development within 30 metres	Yes
Other Fish Habitat (type 2 and 3)	EIS required	EIS required for development within 15 metres	Yes
Significant Valleylands	EIS required	EIS required for development within 50 metres	No
Other Evaluated Wetland	EIS required	EIS required for development within 50 metres	Yes
Other Features in the Greenbelt Plan			
Greenbelt Natural Heritage System	EIS required	EIS not required.	No
Key hydrologic feature	Development not permitted – no EIS	EIS required for development within 120 metres	No

The EIS that will be prepared for this development area will follow the guidelines and report structure that is outlined in the Region of Niagara EIS Guidelines document. Broadly, this will include the preparation of a constraints analysis and environmental impact study report.

As outlined in the EIS Guidelines, impacts shall be assessed for different phases of the development project (e.g. during site preparation and construction, and following the development); this includes identification of direct impacts, indirect impacts, and cumulative impacts. Opportunities to avoid potential impacts will be considered early in the process through a constraint assessment to determine where land-use/natural heritage conflicts can be resolved through design changes. Following this, mitigation, enhancement, and restoration strategies will be explored. Finally, residual impacts that cannot be addressed through design changes and mitigation/enhancement strategies will be identified, and considered for managing through off-site compensation.

Initial steps to ensure impacts of the proposed land development are minimized will require delineation of natural heritage feature boundaries, identifying appropriate setbacks at a local scale (i.e. buffers may vary across the site depending on sensitivities), and key hydrological linkages that are important for sustaining the function of the system

2.0 BACKGROUND INFORMATION

As part of the process to establish these detailed Terms of Reference, a series of meetings and follow-up consultation were held with the City of Niagara Falls, Region of Niagara, NPCA, and MNRF. Each party was requested to provide access to available relevant information to support the preparation of an EIS; the following provides a summary of specific information related to Fisheries and Terrestrial Resources.

Fish and Aquatic Habitat

The Ministry of Natural Resources and Forestry (MNRF) and the Niagara Peninsula Conservation Authority (NPCA) were contacted regarding existing information on the fish habitat and communities in the watercourses on the site. There are no data available from either agency. The nearby and adjacent, Niagara River and Welland River respectively, support diverse fish communities and support recreational fisheries, hence will require consideration in the assessment.

Terrestrial Natural Heritage

The NPCA and MNRF indicated that various types of information are available for the property, including but not limited to natural heritage reports, element occurrence records, and incidental species occurrence records.

Natural heritage information for previous studies will be used for baseline information. NPCA indicated that this information and other species records for the property can be provided.

The Niagara Region Natural Area Inventory will be used to characterize vegetation characteristics and ecological function of similar systems in the area.

Element occurrence records from the MNRF Guelph District and the Natural Heritage Information Centre will be used to identify species at risk, and provincially rare species that are present in the area, and that may occur on the property.

3.0 CONSULTATION

As noted, various meetings and follow-up consultation has been held with the respective stakeholders and agency partners (ref. Appendix A). The following provides a summary of relevant consultation.

Fish and Aquatic Habitat

As noted, neither the MNRF nor the NPCA have any information regarding fish and fish habitat on the site. It was recommended by MNRF that fish sampling and habitat characterization be undertaken and a Licence to Collect Fish for Scientific Purposes for watercourses on the site was issued to C. Portt and Associates. MNRF (ref. Pers. Comm. A. Yagi) also recommended that aquatic habitat on the site, fish access from adjacent waterbodies, and the potential effects of water management on the golf course be assessed. The MNRF and NPCA have both requested that access to the OPG property be arranged and the potential for fish accessing the Con Rail Drain be determined. It was agreed at the April 21, 2015 meeting (ref. Appendix A) with NPCA that a formal headwater drainage feature assessment would not be necessary, given the ephemeral nature of the watercourses/drainage features.

Terrestrial Natural Heritage

Niagara Peninsula Conservation Authority

The NPCA was consulted and staff provided direction on the following items:

- Mapping that shows the extent and location of wetland boundaries and environmental conservation areas boundaries
- Natural Heritage work previously conducted on the property was reported in a 2009 Environmental Impact Statement. NPCA advised that this could be used as a baseline for information on plant communities and species present; NPCA will provide this report to the team.
- That a number of surveys have not been conducted for the site, including bat habitat surveys, crepuscular bird surveys, and White Wood Aster surveys.
- Wetland boundary delineation on the ground would have to be coordinated with MNRF
- Woodlands are identified as Regional Environmental Conservation Area and will need to be assessed using the appropriate criteria for their significance
- Occurrence and habitat for reptiles (including snakes and turtles) can be determined through incidental observations while on-site for other studies
- Corridors and linkages will need to be characterized to connectivity of natural areas to the surrounding system
- Potential impacts to vernal pools can be addressed through understanding changes to their hydrology using topographic information and micro-catchment characteristics; detailed assessment using feature based water balance and/or ground water monitoring would not be required
- Consideration of trails within wetlands and buffers

Ministry of Natural Resources and Forestry

Consultation with the MNRF confirmed that wetland boundary verification will need to be conducted with the MNRF biologist. This will require visiting the site with the MNRF to confirm and survey wetland boundaries. MNRF also indicated that targeted species at risk surveys may need to be conducted for species that are likely to occur on the property.

4.0 WORK PLAN TASKS

A. Fish and Aquatic Habitat

C. Portt and Associates has conducted initial spring inventories as follows, plus based on agency partners consultation, established follow-on tasks related to fisheries management:

1. Request any background information available from the MNRF and NPCA regarding the fish community in the watercourses and acquire a Licence to Collect Fish for Scientific Purposes.

Completed. Meeting with NPCA and telephone discussion with MNRF

 Conduct field investigations to characterize the habitat conditions (presence/absence of flow, wetted channel dimensions, substrate, presence/absence of barriers to migration) and look for spawning fish in all watercourses that occur on the property during the spring spawning period.

Completed April 11, 12, and 21, 2015.

- 3. Obtain amphibian trapping information conducted upon vernal pools by Dougan and Associates. Fish are often captured incidentally during this work (minnow traps are used) and therefore may indicate which pools are utilized by fish.
- 4. Conduct fish sampling by either seining or electrofishing later in the spring or in early summer when individuals spawned this spring will be susceptible to capture. *Completed June 11, 2015.*
- Arrange for access to OPG property to examine the potential for fish access into the Conrail Drain. This has been required by MNRF and NPCA.
 Contact has been made, but date not scheduled.
- 6. Investigate the potential for water management/augmentation within the existing golf course, and how this affects flows in the study area watercourses. Must contact golf course maintenance department.
- 7. Re-examine fish habitat, stream flow, and fish communities (by electrofishing/observation) during the usual late summer low flow period.
- 8. Prepare a report summarizing the background information and the results and significance of the field investigations.

B. Terrestrial Natural Heritage

Dougan & Associates conducted botanical inventories, ecological land classification surveys, breeding bird surveys, and amphibian surveys during the spring of 2015. To date, this information has confirmed that the existing Ministry of Natural Resources and Forestry wetland mapping provides a good representation of the extent and boundaries of existing wetland features on the ground. Other areas of the site are dominated by young deciduous forest, shrub thickets, and open meadows. The wetland features provide high quality habitat for various amphibian species include frogs, toads, and salamanders. Additionally, a diverse bird and wildlife community is support by the mix of habitat types. The following provides specific details as to the scope completed to-date and that which is proposed.

1. Nocturnal Amphibian Surveys - Complete

Point counts established across the site to document the frog and toad species and relative abundance. Survey conducted April, May, and June.

2. Breeding Bird Surveys - Complete

Transects and point counts to document breeding birds present across the site. Surveys conducted May and June.

3. Early Season Ecological Land Classification and Vegetation Inventory - Complete

Site inventory and boundary delineation of vegetation communities across the site and inventory of early season plants. Surveys conducted during May and June.

4. Wetland Boundary Delineation

Field verify the Provincially Significant Wetland boundary through site investigation and on the ground staking. Follow up visit with MNRF biologist to confirm wetland boundary and capture coordinates using high-accuracy GPS (Trimble Geo XH).

5. Summer & Fall Vegetation Surveys

Summer and fall vegetation surveys to complement the spring inventory work that was completed. In addition to documenting the flora present, targeted surveys will be conducted for SAR species such as White Wood Aster. Inventory will be combined with other field visits such as wetland boundary delineation, and other SAR surveys that are required.

6. Species at Risk Surveys

Meeting with NPCA and MNRF to confirm Species at Risk that are known to be present at the site or have high potential to be present. Targeted field inventory to validate NPCA and MNRF information for the species of interest.

7. Early Season Summary report – in progress

Technical memorandum documenting findings of early season wildlife and plant inventory work. Preliminary ELC mapping and quantitative summary of vegetation communities.

C. Combined EIS Tasks

1. Characterization and Evaluation of Significance Report

Building on the early season summary, field inventory results will be presented in a overall characterization report. The report will document species observed, vegetation community types present, ecological functions of supporting flora and fauna, status of species present, and important policy boundaries (e.g. wetlands, woodlands, Environmental Conservation Areas), fisheries, and associated habitat. Findings will be used to provide recommendations for appropriate setbacks and fisheries management and will be integrated into the land use planning process throughout the characterization stage of the project.

2. Integration of Land Use Plan and Constraints Report

The draft land use plan will be integrated with the terrestrial natural heritage information and fisheries habitat information to identify consistencies and conflicts with features and proposed protection areas. Preliminary restoration opportunities will be identified. At this stage, impacts that can be avoided through updates to the land use plan will be recommended.

3. Impact Assessment and Management Recommendations Report

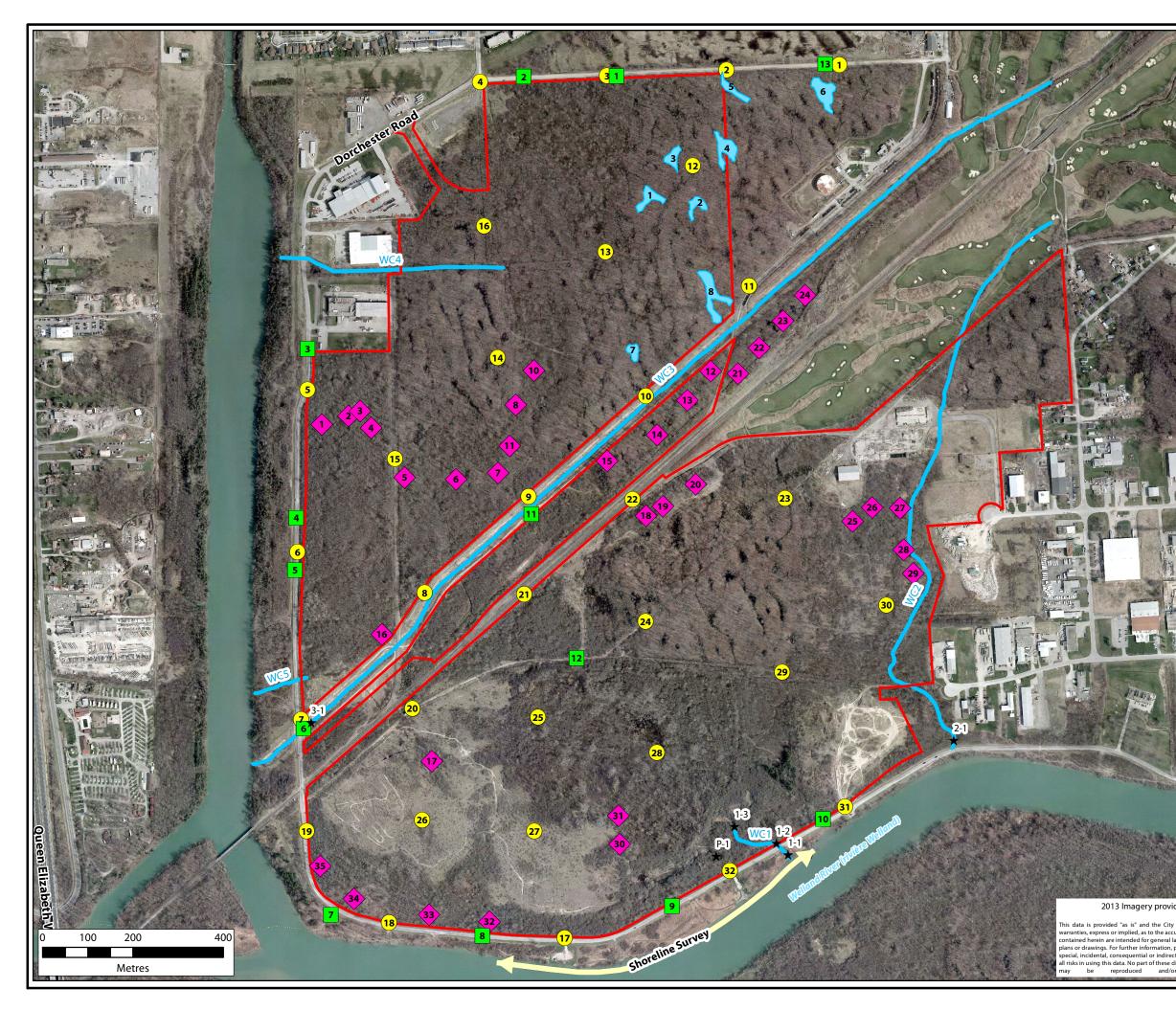
The impact analysis will summarize the expected direct, indirect, and cumulative impacts that will result from the proposed land use plan. Opportunities for mitigation, restoration, and enhancement will be explored and recommended based on the types and extent of features lost, complementary land use types, and sustainable long-term management strategies. Where necessary to address residual impacts that cannot be addressed onsite, off-site areas will be evaluated through desktop analysis to determine if natural features in the vicinity of the site could be integrated into a broader restoration plan. Based on the proposed restoration and management strategies, monitoring requirements will also be identified.

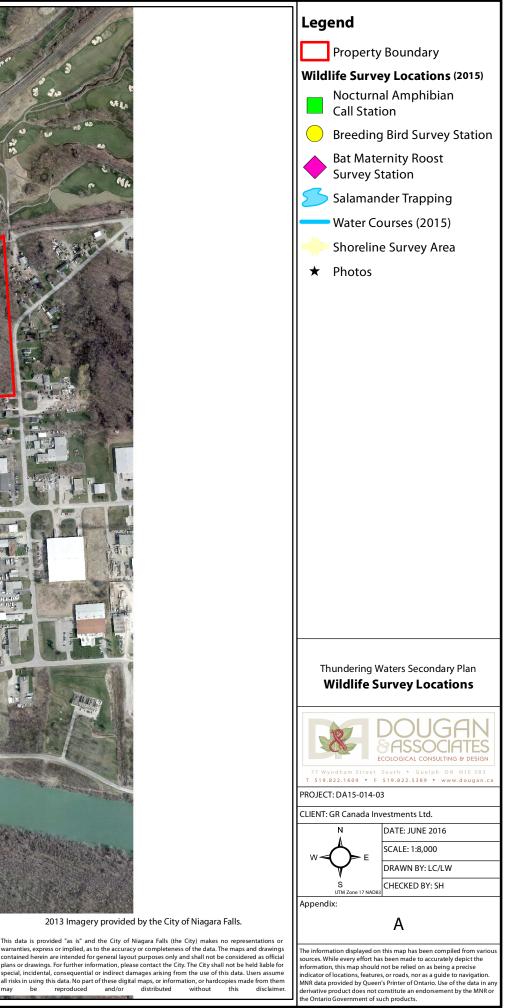
5.0 SCHEDULE

The EIS will basically involve three (3) primary stages scheduled as follows:

- 1. Seasonal Field Data Collection: Spring, Summer, Fall, 2015
- 2. Site Characterization: Fall 2015/Winter 2016
- 3. Impact Assessment/Management Strategies: Winter/Spring 2016

Appendix B: Wildlife Monitoring Locations





Appendix C: NHIC Query Results

Element curance ID	Scientific Name	Comman Name	S Rank	COSEWIC	Last Observed	MNRF Status	Extirpate
104195	Acipenser fulvescens pop. 3	Lake Sturgeon (Great Lakes - Upper St. Lawrence River population)	S2	THR	2011-pre	THR	N
	Acipenser fulvescens pop. 3	Lake Sturgeon (Great Lakes - Upper St. Lawrence River population)	S2	THR	2011-09-01	THR	N
104202	Sturnella magna	Eastern Meadowlark	S4B	THR	2008-8-3	THR	N
	Polygala incarnata	Pink Milkwort	\$1	END	1823	END	Y
	Morus rubra	Red Mulberry	S2	END	1890-pre	END	N
11378	Justicia americana	American Water-willow	\$1	THR	2007-10-04	THR	N
	Nycticorax nycticorax	Black-crowned Night-heron	S3B,S3N		1991-06-04		N
	RESTRICTED	RESTRICTED			1943-PRE		Y
	Phegopteris hexagonoptera	Broad Beech Fern	\$3 \$1	SC	1890's	SC	Y
	Ipomoea pandurata Vaccinium stamineum	Big-root Morning Glory Deerberry	\$1 \$1	THR	1902-08-15 1896-05-26	THR	N Y
	Colinus virginianus	Northern Bobwhite	51 S1	END	1900	END	Y
	Lespedeza frutescens	Violet Bush-clover	\$1 \$1	END	1891-07-16		Y
	Falco peregrinus	Peregrine Falcon	S3B	SC	2008-06-10	THR	N
23025	Nycticorax nycticorax	Black-crowned Night-heron	S3B,S3N		1991		N
	Nycticorax nycticorax	Black-crowned Night-heron	S3B,S3N		1991		N
	Nuphar advena	Large Yellow Pond-lily	\$3		2004		N
	Oenothera gaura	Biennial Gaura	\$3 611		2004		N
	Polygonum erectum Crataegus pruinosa var. dissona	Erect Knotweed Northern Hawthorn	SH S3		1895-09-14 1905-09-27		Y N
	Crataegus pruinosa var. dissona	Northern Hawthorn	\$3 \$3		1903-09-27		N
	Crataegus pruinosa var. dissona	Northern Hawthorn	\$3 \$3		1977-05-18		N
	Crataegus formosa	Waxy-fruit Hawthorn	S2		1977-09-16		N
	Aureolaria virginica	Downy Yellow False Foxglove	\$1		1945-08-02		Y
2727	Hybanthus concolor	Eastern Green-violet	S2		1901-05-16		N
2752	Viola rotundifolia	Round-leaved Yellow Violet	SH		1892-06		Y
	Carex hirsutella	Hairy Green Sedge	S3		1981		N
	Carex appalachica	Appalachian Sedge	S2S3		1882-07-05		N
	Schoenoplectiella smithii	Smith's Bulrush	\$3 60		1896-08		Y
	Schoenoplectiella smithii Chamaelirium luteum	Smith's Bulrush Fairywand	S3 SX		1896-09-05 1897-06-19		Y Y
	Chamaelirium luteum	Fairywand	SX		1897-00-19		Y
	Uvularia perfoliata	Perfoliate Bellwort	S1		1904-05-24		N
	Emydoidea blandingii	Blanding's Turtle	\$3	THR	1985	THR	N
32852	Aristida dichotoma	Churchmouse Threeawn Grass	\$1		1995-09-13		N
33028	Gentianella quinquefolia	Stiff Gentian	S2		1894-09-03		Y
3316	Spiranthes lacera var. gracilis	Southern Slender Ladies'-tresses	\$1		1896-09-05		Y
3319		Southern Slender Ladies'-tresses	S1		1908		Y
	Oenothera gaura	Biennial Gaura	\$3		1995-09-13		N
	Dichanthelium praecocius	White-haired Panicgrass	\$3		1902-06-17		N
	Muhlenbergia tenuiflora Muhlenbergia tenuiflora	Slim-flowered Muhly Slim-flowered Muhly	\$2 \$2		1849-08-02 1948-08-20		N N
	Sphenopholis nitida	Shiny Wedge Grass	52 \$1		1948-08-20		Y
	Smilax rotundifolia	Round-leaved Greenbrier	\$1 \$2	THR	1989-03-14	THR	N
	Crotalus horridus	Timber Rattlesnake	SX	EXP	1941-08-22	EXP	Y
	Eurybia divaricata	White Wood Aster	S2	THR	1893	THR	Y
	Desmodium ciliare	Hairy Small-leaved Tick-trefoil	SX		1887-07		Y
	Crataegus beata	Dunbar's Hawthorn	\$1		1010		N
	Crataegus intricata	Copenhagan Hawthorn	SH		1912-10-07		N
	Juncus acuminatus Desmodium rotundifolium	Sharp-fruited Rush Prostrate Tick-trefoil	\$3 \$2		1901-07-08 1906-09-03		N N
	Linum medium var. medium	Stiff Yellow Flax	\$3?		1908-09-03		N
	Linum virginianum	Woodland Flax	\$2		1897-07-16		N
	Nyssa sylvatica	Black Gum	\$3		1949-06-03		N
60111	Thaspium barbinode	Hairy-jointed Meadow-parsnip	SH		1901-07-04		N
	Monarda didyma	Scarlet Beebalm	\$3		1904		N
	Dichanthelium clandestinum	Deer-tongue Panicgrass	S2		1995-09-13		N
	Eurybia divaricata	White Wood Aster	S2	THR	2002-09-12	THR	N
	Pleurobema sintoxia	Round Pigtoe	\$1	END	1934-06-20	END	N
	Arigomphus villosipes Ptychobranchus fasciolaris	Unicorn Clubtail Kidneyshell	\$2\$3 \$1	END	1934-06-20 1934-06-20	END	N N
	Clinostomus elongatus	Redside Dace	\$1 \$2	END	1954-06-20	END	N
	Cornus florida	Eastern Flowering Dogwood	S2?	END	2010-05-19	END	N
84753							

DA15-014-01 Thundering Waters NHIC Query (May 6, 2015)

Element							
Occurance ID	Scientific Name	Comman Name	S Rank	COSEWIC	Last Observed	MNRF Status	Extirpated
92208	Chimaphila maculata	Spotted Wintergreen	\$1	END	1895	END	N
92209	Hibiscus moscheutos	Swamp Rose-mallow	S3	SC	2004	SC	N
92417	Frasera caroliniensis	American Columbo	S2	END	1890's	END	N
93491	Ligumia nasuta	Eastern Pondmussel	S1	END	1988-06-16	END	N
93594	Peltandra virginica	Green Arrow-arum	S2		2004		N
93603	Spiranthes magnicamporum	Great Plains Ladies'-tresses	\$3?		2004		N
93604	Carya laciniosa	Shellbark Hickory	S3		2004		N
93605	Persicaria arifolia	Halberd-leaved Tearthumb	S3		2004		N
94937	Cornus florida	Eastern Flowering Dogwood	S2?	END	2008-06-17	END	N
95005	Cornus florida	Eastern Flowering Dogwood	S2?	END	1986-06-19	END	N
95120	Juglans cinerea	Butternut	\$3?	END	2008-08-00	END	N
96036	Chelydra serpentina	Snapping Turtle	S3	SC	2010-06-29	SC	N

Appendix D: Ecological Land Classification Data Sheets

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G AQUATIC	PARENT MIN.	G TERRACE		G FLOATING-LVD.	G SWAMP	8						
	BASIC BEDRK.	G ROLL. UPLAND			CO BOG FEN		+					
SITE	CARB, BEDRK.	G CREVICE / CAVE	COVER		G MEADOW							
G OPEN WATER		G BEACH / BAR	G OPEN		G THICKET							╞
G SHALLOW WATER G SURFICIAL DEP. G BEDROCK		G SAND DUNE	G SHRUB G TREED		G PLANTATION	T						
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COMM. AGE	PIONEER	YOUNG	MID-AGE	MATURE	OLD GROWTH	TT						
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SALANDA AT 1 CARLIDU 1 0	G FLOATING-LVD.	G AQUATIC G PARENT MIN. G VA
coL. species code 1	ANATURAL G PLANTON G SUBMERGED	IAL G ORGANIC
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COMPLEX	INCLUSION	VEGETATION TYPE	ECO	COMMUNITY SERIES:	COMMINITY SEI	COMMUNITY CLASS:	COMMUNITY CLASSIFICATION:	HOMOGENEOUS / VARIABLE	MOISTURE:		SOIL ANALYSIS	COMM. AGE	ABUNDANCE CODES:	DEADFALL / LOGS:	STANDING SNAGS:	SIZE CLASS ANALYSIS:		STAND COMPOSITION:		GRD. LAYER	3 UNDERSTOREY	2 SUB-CANOPY	1 CANOPY	LAYER	STAND DESCRIPTION.	G BEDROCK	G SHALLOW WATER	alle				G TERRESTRIAL	SYSTEM			DESCRIPTION &	_
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			BARREN			G CLIFF	BASIC BEDRK.	
			SWAMP			G VALLEY SLOPE	ACIDIC BEDRK.	
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	SOIL SURVEY MAP		MOISTURE REGIME	PORE SIZE DISC #2	PORE SIZE DISC #1	DEPTH OF ORGANICS	CARBONATES	WATER TABLE	BEDROCK	GLEY	MOTTLES	DEPTH TO / OF	SURFACE ROCKINESS	SURFACE STONINESS	EFFECTIVE TEXTURE	COURSE FRAGMENTS	C TEXTURE	COURSE FRAGMENTS	B TEXTURE	COURSE FRAGMENTS	A TEXTURE		Tank Press	The second		TEXTURE x HORIZON	Soll	01 4		2	P/A PP Dr		SOILS ONTARIO	ELC	
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SOL SURVEY MAP	MOISTURE REGIME	CARBOWNTES DEPTH OF ORGANICS PORE SIZE DISC #1	EFFECTIVE FINALMENTS Image: Course final state sta	FLC STE: NOL.S ONTARIO DATE: DATE: DATE: Solus ONTARIO Supervorsis: V V V V Solus ONTARIO Supervorsis: V V Solus ONTARIO Supervorsis: V V Solution Aspection Solution 1 Solution <
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POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM COMMUNITY	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANKTON	GLAKE
G WETLAND	G MINERAL SOIL	G BOTTOMLAND	G CULTURAL	G FLOATING-LVD	C RIVER
G AQUATIC	G PARENT MIN	G TERRACE		G GRAMINOID	G STREAM
	G ACIDIC BEDRK	G TABLELAND		GLICHEN	G SWAMP
	G BASIC BEDRK	G ROLL. UPLAND		G BRYOPHYTE	D BOG
SITE	G CARB. BEDRK	G TALUS	COVER	G CONFEROUS	G BARREN
OIL V		G ALVAR			G PRAIRIE
G OPEN WATER		G ROCKLAND	G OPEN		G THICKET
C SHALLOW WATER		G SAND DUNE	G SHRUB		G WOODLAND
G BEDROCK		C BLUFF	G TREED	- 161	G PLANTATION

STAND DESCRIPTION.

	LAYER	НТ	CVR	HT CVR species in order of decreasing dominance (up to 4 sp) CVR (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
-	CANOPY			Co-R
2	2 SUB-CANOPY			
3	3 UNDERSTOREY			
4	4 GRD. LAYER			
<u></u>	HT CODES:	1 = >25 m	2=10<	1=>25 m 2=10cHT 25 m 3=2°HT 10 m 4=1°HT 2 m 5=0.5°HT 1 m 6=0.2°HT 0.5 m 7=HT 0.2 m
S	CVP CODES	0= NONE	1= 0%	0= NONE 1= 0% < CVR 210% 2= 10 < CVR 25% 3= 25 < CVR 60% 4= CVR > 60%

HT CODES: 1=>25 m 2=10×HT 25 m 3=2<HT 10 m 4=1×HT 2 m 5=0.5<HT 1 m 6=0.2<HT 0.5 m 7=HT
CVR CODES 0=NONE 1=0% < CVR 10% 2=10 < CVR 25% 3=25 < CVR 60% 4=CVR > 60%
STAND COMPOSITION: [A.

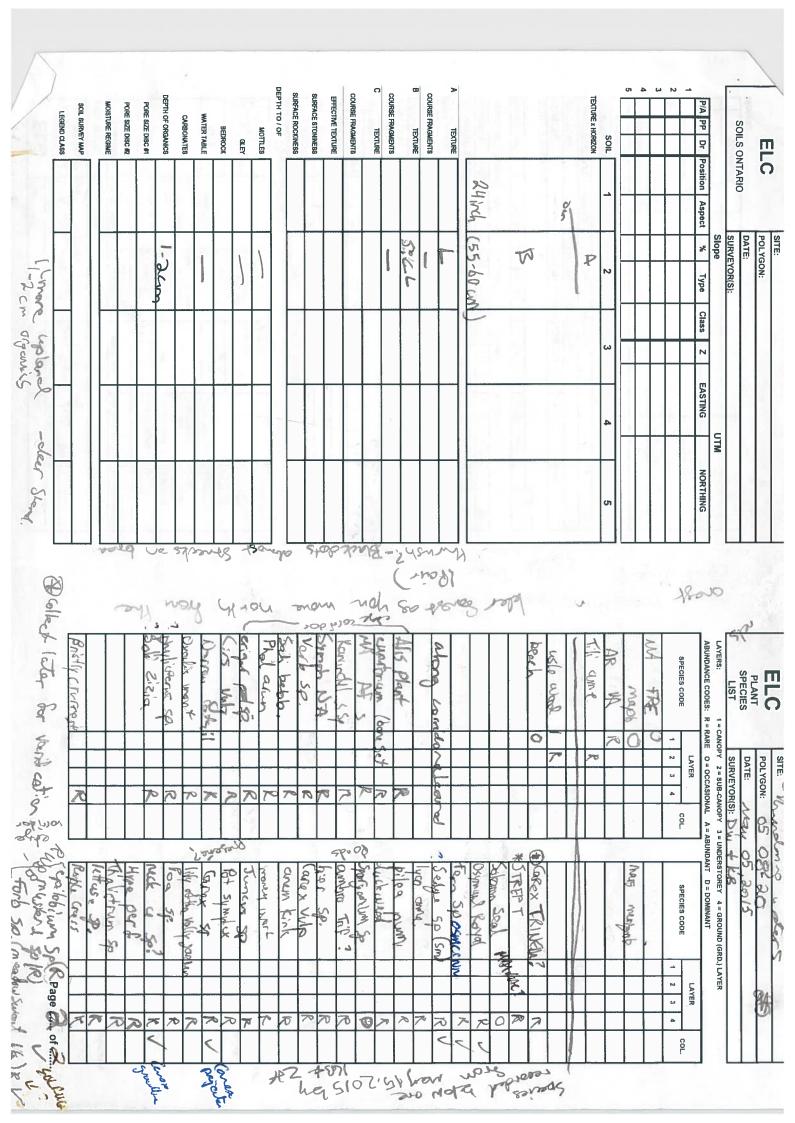
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STANDING SNAGS:	v	< 10	10 - 24		25 - 50		> 50
DEADFALL / LOGS:	v	< 10	10 - 24		25 - 50		> 50
ABUNDANCE CODES: N = NONE R = RARE	R = RARE	O = OCCASIONAL	SIONAL	A = AB	A = ABUNDANT		

ABUNDANCE CODES:	N = NUNE K = KAKE	K = KAKE	U = UCCASIONAL		
COMM. AGE	PIONEER	VOUNG	MID-AGE	MATURE	OLD
					GROWTH

SOIL ANALYSIS:				
TEXTURE:	DEPTH TO MOTTLES / GLEY	۱ ۵	5	
MOISTURE:	DEPTH OF ORGANICS:			(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK:		8	(cm)
COMMUNITY CLASSIFICATION:	VTION:		ELC CODE	
COMMUNITY CLASS:				
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DATE POLYGON: ITME TIME WITHAL FLANT FORM G OPEN G PLANKTON		LEX	SION	ON TYPE:	ECOSITE:	Y SERIES:	Y CLASS:		/ VARIABLE	DEPTH	•.*·	П	N = NONE R =			ANALYSIS: P	VONE 1= 0% < CVR ≰ 1	1=>25 m 2= 10 <ht_25 m<="" td=""><td>2 20 2</td><td>-</td><td> 4</td><td>CVR (>></td><td></td><td></td><td></td><td>CARB. BEDRK.</td><td>BASIC BEDRK.</td><td>PARENT MIN.</td><td>ORGANIC MINERAL SOIL</td><td></td><td>DESCRIPTION</td><td>UTMZ</td><td>NEVEYOR(S)</td><td>Thursda</td></ht_25>	2 20 2	-	4	CVR (>>				CARB. BEDRK.	BASIC BEDRK.	PARENT MIN.	ORGANIC MINERAL SOIL		DESCRIPTION	UTMZ	NEVEYOR(S)	Thursda
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G WETLAND G AQUATIC	G PARENT MIN.	G BOTTOMLAND	G CULTURAL	G FLOATING-LVD	G STREAM								
	G ACIDIC BEDRK.	G TABLELAND G ROLL. UPLAND		G LICHEN									
SITE	CARB, BEDRK.	G CREVICE / CAVE	COVER	G CONIFEROUS	G BARREN MEADOW								
G OPEN WATER		GROCKLAND	GOPEN		G THICKET								
G SHALLOW WATER G SURFICIAL DEP G BEDROCK		G BLUFF	G SHRUB		G PLANTATION								
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1 CANOPY													
2 SUB-CANOPY													
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4 GRD. LAYER						BASAL AREA (BA)							
HT CODES:	1=>25 m 2=10 <ht 25="" 3="<br" m="">0= NONE 1=0% < CVR 10%</ht>	25 m 3 = 2 <ht 10="" 4<br="" m="">/R 10% 2= 10 < CVR</ht>	4 = 1 <ht 1<br="" 2="" 5="0.5<H1" m="">2 25% 3 = 25 < CVR 60%</ht>	3=24H-10 m 4=14H1 2 m 5=0.54H+1 m 6=0.44H+0 m 0% 2=10 < CVR = 25% 3=25 < CVR = 60% 4= CVR > 60%	11 2.0×14 = 7 14 6.0	DEAD							
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STANDING SNAGS:	, ŝ	< 10	10-24	25 - 50	> 50		DIAGRAM						
ABUNDANCE CODES:	S: N = NONE	R=RARE 0=	OCCASIONAL	A = ABUNDANT		TT							
COMM. AGE	PIONEER	YOUNG	MID-AGE	MATURE	OLD GROWTH					5 ¹			
SOIL ANALYSIS:	Ś												
TEXTURE:		DEPTH TO MOTTLES / GLEY	TLES / GLEY	9 1	G=	1				Ē			
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SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY	PRISM FACTOR	Ŕ						
G TERRESTRIAL	G ORGANIC		GNATURAL			SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL.
G AQUATIC	PARENT MIN,				OG HIVER MARSH								
	acidic Bedrk. Basic Bedrk.	G TABLELAND G ROLL, UPLAND G CLIFF		G LICHEN G BRYOPHYTE	G SWAMP G BOG								
SITE	G CARB. BEDRK.	G TALUS	COVER		G BARREN								
G OPEN WATER			G OPEN		G THICKET								
G SURFICIAL DEP.			G SHRUB G TREED		G FOREST G PLANTATION								
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LAYER	R	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL	DER OF DECREASI R THAN; > GREAT	ING DOMINANCE (L ER THAN; = ABOU	ip to 4 sp) IT EQUAL TO)								
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SIZE CLASS ANALYSIS:	LYSIS:	< 10	10 - 24	25 - 50	> 50								
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COMM. AGE	PIONEER	YOUNG	MID-AGE	MATURE	OLD	T							
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LA St Pa	2	ORAL RENAM	SP	R TAN (AT A			NCLUSIAN														PETIO	ALLUTE 0	7	GRIP	WI DEN KAND R	RAGVIR 0			KTERSPO	SPECIES CODE 1 2 3 4		REY 4 = GROUND (GRD.) LAYER	R		haters

Notes:	COMPLEX		VEGETATION TYPE	EC	COMMUNITY SERIES:	COMMUNITY CLASS:	COMMUNITY C	HOMOGENEOUS	ᆔᄃ	SOIL ANALYSIS	COMM. AGE :	ABUNDANCE CODES:	DEADFALL / LOGS:	STANDING SNAGS:	SIZE CLASS ANALYSIS:	STAND COMPOSITION:	HT CODES: CVR CODES	4 GRD. LAYER	3 UNDERSTOREY	2 SUB-CANOPY	1 CANOPY	\geq	STAND DESCR	G OPEN WATER G SHALLOW WATER G SURFICIAL DEP G BEDROCK	SITE		G TERRESTRIAL G WETLAND G AQUATIC	SYSTEM	POLYGON DE	CLASSIFICATION	COMMUNITY DESCRIPTION &	ELC
	×	N	4 TYPE:	ECOSITE:	ERIES:	CLASS:	CLASSIFICATION:	/ VARIABLE		S	PIONEER	S: N = NONE	ŝ	ŝ	LYSIS:	UN:	1 = >25 m 2 = 10 <ht.25 m<br="">0= NONE 1= 0% < CVR = 10</ht.25>		- 14	S	e F	V R	DESCRIPTION		G CARB. BEDRK.	ACIDIC BEDRK. BASIC BEDRK.	ORGANIC MINERAL SOIL PARENT MIN	SUBSTRATE	DESCRIPTION	UTMZ: UT	SURVEYOR(S)	SITE
							ON:	DEPTH TO BED	DEPTH TO MOTTLES / GLEY DEPTH OF ORGANICS:		YOUNG	R = RARE 0 =	< 10	< 10	< 10		10 <ht_25 3="2<HT_10" 4="1<+<br" m="">0% < CVR 10% 2=10 < CVR 25%</ht_25>				RAK > PR	SPECIES IN OF		G ROCKLAND BEACH / BAR BLUFF	G CREVICE / CAVE	G TABLELAND G ROLL. UPLAND CLIFF	G LACUSTRINE RIVERINE G BOTTOMLAND G VALLEY SLOPE	TOPOGRAPHIC FEATURE	2	UTME		
								BEDROCK:	TLES / GLEY		MID-AGE	OCCASIONAL	10 - 24	10 - 24	10 - 24		4=1 <ht 1<br="" 2="" 5="0.5<HT" m="">R 25% 3=25 < CVR 60%</ht>				ton sp 2t	RDER OF DECREAS ER THAN; > GREA		G OPEN G SHRUB . G TREED	COVER		G CULTURAL	HISTORY		ГЛ	DATE	
			S S				ELC		g =		MATURE	A = ABUNDANT	25 - 50	25 - 50	25 - 50		5 <ht 0.5<br="" 1="" 6="0.2<HT" m="">60% 4= CVR > 60%</ht>				2ADP DELT	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL			G MIXED	G BRYOPHYTE DECIDUOUS	G PLANKTON SUBMERGED GRAMINOID FORB	PLANT FORM		UTMN:	TIME start finish	POLYGON:
			-					(cm)	G= (cm)		OLD		> 50	> 50	> 50	BA:	0.5 m 7 = HT<0.2 m					TO)		G SAVANNAH G SAVANNAH WOODLAND FOREST PLANTATION	G MEADOW PRAIRIE	BOG BOG	GGGGG LAKE POND STREAM MARSH	COMMUNITY				
																			55	202	20%)				8						

SurT Its standing nature in inclusion

<mark>8</mark> [_	ໄຮ	HO	M	IE	SC	ទ្រា	AB	R	ST	Siz		N N	4		N	-		IS I	ୁଙ୍କର୍ଭୁନନ			ត្ត			рl	20	5
Notes:	COMPLEX	INCLUSION	VEGETATION TYPE:	E	COMMUNITY SERIES:	COMMUNITY CLASS:	COMMUNITY CLASSIFICATION:	HOMOGENEOUS / VARIABLE	MOISTURE:	TEXTURE:	SOIL ANALYSIS	COMM. AGE :	ABUNDANCE CODES:	DEADFALL / LOGS:	STANDING SNAGS:	SIZE CLASS ANALYSIS:	STAND COMPOSITION:	HT CODES: CVR CODES	GRD, LAYER	UNDERSTOREY	SUB-CANOPY	CANOPY	LAYER	STAND DESCRIPTION:	G OPEN WATER G SHALLOW WATER S SURFICIAL DEP G BEDROCK	SITE		G WETLAND G AQUATIC	RIAL		POLYGON DE	CLASSIFICATION	
	×	NO	N TYPE	ECOSITE:	SERIES	CLASS	CLASS	VAR			S	Π		iS:	ŝ	ALYSIS:	ON:	0= NONE	1-5	1-1	~	4	H	RIPTIO		G CAR	G ACID	PARENT MIN.	GORG	SUB	DESCRIPTION	UTMZ.	SITE
		1					IFICAT	IABLE			-	PIONEER	N = NONE							4	2	2	CVR	Ž		CARB, BEDRK.	G BASIC BEDRK.	ENT MIN.	G ORGANIC	SUBSTRATE	NOILe		YOR(S)
			Gra		4		:NOI	DEPT	DEPT	DEPT			R = RARE	2	R	A		CVR 10%	Se	6		FRA	(>> MU			GGGTALL	CLIF		GG RIVE RIVE	TOPO		UTME	Les
			r M					DEPTH TO BEDROCK:	DEPTH OF ORGANICS:	DEPTH TO MOTTLES / GLEY		DUNG		< 10	^10	< 10	1	= 2 <h1 10<br="">2= 10 < 0</h1>	045V	ie		8Ps	ECIES IN CH GREA		G ROCKLAND G BEACH / BAR G BLUFF	JS VICE / CAVI	ELAND	FOMLAND PACE EY SLOPE	JSTRINE	TOPOGRAPHIC		Ĩ	E.
		C	Dox /					DROCK	GANICS	DITLES		×	O = OCCASIONAL	0	0	Ą		m 4 = 1 <h< td=""><td>26</td><td>101</td><td></td><td>NAN 2</td><td>ORDER O</td><td></td><td>G OPEN G TREED</td><td></td><td></td><td>CULTURAL</td><td></td><td></td><td></td><td>Muy</td><td>DATE</td></h<>	26	101		NAN 2	ORDER O		G OPEN G TREED			CULTURAL				Muy	DATE
			hoor	-	÷					/ GLEY		MID-AGE	SIONAL	10 - 24	10 - 24	10 - 24		2 <h) 10="" 1<br="" 2="" 4="1<H1" 5="0.5<H1" m="">2= 10 < CVR < 25% 3= 25 < CVR 60%</h)>	Sarand				F DECRE N; > GRE		₿ G Z	COVER		TURAL	URAL	HISTORY		2/1	
										g =			A = AB	0	0	0		VR 60%	Ň	FRX PAN		KOP O ELT	ASING DO			G MIXE	ភ្នាភ្នំ ភ្លូងឆ្នូ ភ្លូងឆ្នូ		GG Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma	PLA		UTMN	POLYGON: TIME
		M	SW	-	ŕ		m			CA		MATURE	ABUNDANT	25 - 50	25 - 50	25 - 50		1=0%+CVR 10% 2=10+CVR 25% 3=25+CVR 60% 4=CVR 560%		<	-	V	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL			IFEROUS	G BRYOPHYTE	ATING-LVD. MINOID B	VIKTON	PLANT FORM			GON:
		MAUM	2				ELC CODE			G= /		_		2	S	2	BA:					MAN AM &	E (up to 4									sh	4
		1	6				Шщ	(cm)	(cm)	PAC A		OLD		> 50	> 50	> 50		/=HI<0.2 m				ner	sp) IAL TO)		G PLANTATION	REN	MP	EAM	ō '''	COMMUNITY			SAF
	1	2	?					E										-		-	-	$\sim e$		1									
-20 M		Phiasu																			С	a le											
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		2		≥Ł		q	3	0	1																								

LEGEND CLASS	SOIL SURVEY MAP	MOISTURE REGIME	PORE SIZE DISC #2	PORE SIZE DISC #1	DEPTH OF ORGANICS	CARBONATES	WATER TABLE	BEDROCK	GLEY	MOTTLES	DEPTH TO / OF	SURFACE ROCKINESS	SURFACE STONINESS	EFFECTIVE TEXTURE	COURSE FRAGMENTS	C TEATURE	COURSEFR	B	COURSE FR		A TEXTURE			İ,				TEXTURE X HORIZON	SOIL	Сп .	۵ ۵ ۱	2	1	P/A PP Dr		SOILS ONTARIO	ELC		
																													**					S Position Aspect					
																					-								2					Slope	SURVEYOR(S):	DATE:	DLYGON:	SITE	
_																													3				'	ISS Z EASTING					
																													4										
														-						<u>م</u>		Ð		~	0	6	(7)		U					NORTHING					
70	5					Т.	T	-7			_	-	-			1	A ST	が大	01 ²⁴	,e.,	01		5	5 5 1	no.	1	e e e e e e e e e e e e e e e e e e e		Ŕ	ST I	6		_					Yours and they	
and the second s	ALLSP				~																									FRAX PEN	JCH HMA	SPECIES CODE		ABUNDANCE CODES: R =	LIST	PLANT SPECIES			またし、
2		a 7	10 C																											R	K	1 2 3 4 COL	LAYER	ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT	SURVEYOR(S): DW	DATE: Mary 08	POLYGON: DS - 08 JUL 4	SITE: The alter water	
																	2	A51 5		ASPA RAGUS	EQUI ARV	GRASS SP	TRIF PRAT	VRRIP	FRAG VIR	ASTER SP.	VICI CRA		PLAN MAT	9	DAUX CAR	SPECIES CODE		SUNDANT D = DOMINANT	レイトア	Stor		Him water	
Page of																	þ.	N I	0	Þ	0	Þ	0		0	0	0	A	6.		0	1 2 3 4 COL	LAYER		D LI AVEB				

PORE SIZE DISC # MOISTURE REGIME SOIL SURVEY MAP LEGEND CLASS	BEDROCK WATER TABLE CARBONATER DEPTH OF ORGANICS	SURFACE ROCKINESS	EFFECTIVE	A TEXTURE COURSE FRAGMED/TS B TEXTURE	SOLL SOLL TEXTURE & HORIZON	P/A PP Dr Position Aspect 1 1 1 1 1 2 1 1 1 1 3 1 1 1 1	SOILS ONTARIO
					2		SITE: POLYGON: DATE: SURVEYOR(S):
					ω	Class Z E	
					4	EASTING NORTHING	
ALL CO			Prop (p.	The population	one her si so		
- Y							
it sp sp sp sp sp sp sp sp sp sp sp sp sp s						ABUNDANCE CODES: R = RARE 0 SPECIES CODE 1 2	
TSP SP 0 WRKI 0					PENNA A P	AVERS: 1 = CANOPY 2 = SUB_CANOPY 3 = UNDER: BUNDANCE CODES: R = RARE 0 = OCCASIONAL A = ABUNDAN SPECIES CODE 1 2 3 4 COL. 1 2 3 4	
TSP EN RUE W RUE					PENNA A	1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = CODES: R = RARE 0 = OCCASIONAL A = ABUNDANT D = DOMI LAVER LAVER COL. SPECIE 1 2 3 4 COL.	DATE: May () SURVEYOR(S): D

· 7 .

					2
	SURVEYOR(S)		DATE	TIME: start	- - - - - - - - - - - - - - - - - - -
DESCRIPTION &	UTMZ UT	UTME	U.	UTMN	
POLYGON DE	DESCRIPTION				
SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL G WETLAND	ORGANIC MINERAL SOIL	G LACUSTRINE G RIVERINE BOTTOMLAND	G NATURAL G CULTURAL		
G AQUATIC	G PARENT MIN. G ACIDIC BEDRK. G BASIC BEDRK.	G VALLEY SLOPE		G FORB G LICHEN DECIDUOUS	
SITE	G CARB BEDRK.	G TALUS CREVICE / CAVE	COVER		G BARREN G MEADOW
G OPEN WATER		G ROCKLAND BEACH / BAR	G OPEN		G THICKET WOODLAND
G BEDROCK		GBLUFF	6		G PLANTATION
STAND DESCRIPTION:	RIPTION:	_			
LAYER	V R	SPECIES IN OF	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL	SING DOMINANCE (TER THAN; = ABO	up to 4 sp) UT EQUAL TO)
-					
					i
İe					
HT CODES:	1=>25 m 2=10 <ht 25="" m<br="">0=NONE 1=0% < CVR 1</ht>	= =	1T 2 m 3= 25	5=0.5 <ht 0.5="" 1="" 6="0.2<HT" m="" m<br="">< CVR 60% 4= CVR > 60%</ht>	0.5 m 7 = HT<0.2 m
STAND COMPOSITION:	ON:				BA:
SIZE CLASS ANALYSIS	LYSIS:	< 10	10 - 24	25 - 50	> 50
STANDING SNAGS:	ŝ	< 10	10 - 24	25 - 50	> 50
DEADFALL / LOGS:	is:	< 10	10 - 24	25 - 50	> 50
ABUNDANCE CODES:	S: N = NONE	R = RARE 0 =	: OCCASIONAL	A = ABUNDANT	
COMM. AGE	PIONEER	YOUNG	MID-AGE	MATURE	OLD GROWTH
SOIL ANALYSIS	S				
		DEPTH TO MOTTLES / GLEY	ITLES / GLEY	g =	G=
MOISTURE:		DEPTH OF ORGANICS:	SANICS:		(cm)
	/ VARIABLE	DEPTH TO BEDROCK:	ROCK:	<u>n</u>	(cm)
		014.			
COMMUNITY CLASS:	CLASS:				
COMMUNITY SERIES:	SERIES:				
EO	ECOSITE:				
VEGETATION TYPE	N TYPE:				
INCLUSION	2 V				
COMPLEX	×				
	;				
Notes:					

norsh I gray dog inclusion

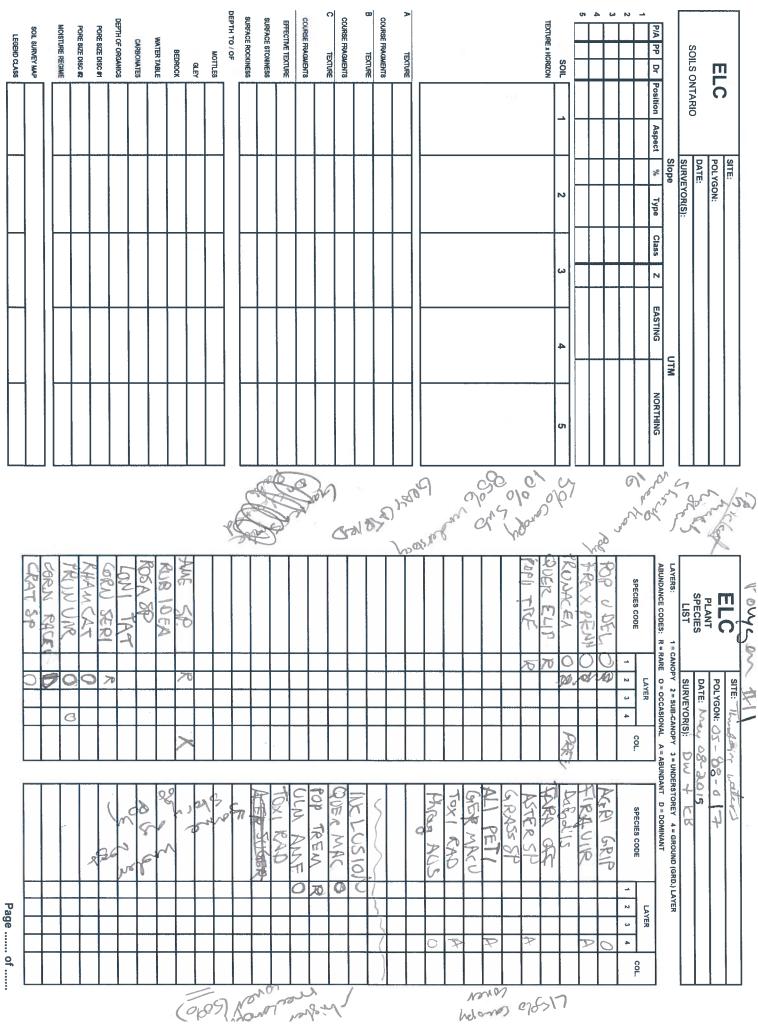
POLYGON DESCRIPTION		
	PLANT FORM COMMUNITY	
G TERRESTRIAL G ORGANIC G ADUATIC G PARENT MIN. G AQUATIC G PARENT MIN. G ACIDIC BEDRK. G BASIC BEDRK. G CILIF	G PLANKTON G SUBMERGED G SUBMERGED G GRAMINOID G GRAMINOID G GRAMINOID G GRAMINOID G STREAM G GRAMINOID G STREAM G STREA	
SITE COVER G OPEN WATER G SHALLOW G SHALLOW G SHALLO		
SCRIPTION:	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp)	
LAYER HT CVR (>> MUCH GREATER THAN; > GREA 1 CANOPY 2 3 SALSP 2 P19P 2 SUB-CANOPY 7 7 7 11	4; > GREATER THAN; = ABOUT EQUAL TO)	
UNDERSTOREY Y H CORLEVEL S.	ONALONY M 21 CONTAIN	
HT 10 m 4 = 1 <ht 10 < CVR 25%</ht 	2 m 5=0.5cHT 1m 6=0.2cHT 0.5 m 7=HT<0.2 m 3=25 < CVR 60% 4= CVR > 60%	
SIZE CLASS ANALYSIS: A 10 - 24	BA:	
< 10	25 - 50	
ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL	A = ABUNDANT	
COMM. AGE PIONEER YOUNG & MID-AGE	MATURE OLD GROWTH	
SOIL ANALYSIS: TEXTURE: NM DEPTH TO MOTTLES / GLEY	g = Mm G= MM	
MOISTURE: VARIABLE DEPTH OF ORGANICS:	(cm)	
티	ELC CODE	
COMMUNITY CLASS:		
COMMUNITY SERIES:		
ECOSITE:		
VEGETATION TYPE: Willow Deciduous	1.1011	
INCLUSION	SIN RIL	Louis Inverse
COMPLEX	L-L MMS	1

LEGEND CLASS	SOIL SURVEY MAP		MOISTURE REGIME	PORE SIZE DISC #2	PORE SIZE DISC #1	DEPTH OF ORGANICS	CARBOWATES	WATER TABLE	BEDROCK	QLEY	MOTTLES	DEPTH TO / OF	SURFACE ROCKINESS	SURFACE STOMINESS	EFFECTIVE TEXTURE	COURSE FRAGMENTS	C	COURSE FF	COURSE FF	A				TEXTURE & HORIZON			2		DIA DP Dr Boettion Asnart % Type Class	SURVEYOR(S):		ELC POLYGON:	SITE	
																						 	 	 4 5					UTM UTM			C		
	1001 77	GRN SERI																						J.	 Sai Sp	POP DELT	SPECIES CODE		ABUNDANCE CODES:	LIST	SPECIES			Cove 17
Pa																										A PhRAG AUS	1 2 3 4 CUL.	n	R = RARE 0 = OCCASIONAL A = ABUNDANT D = DOMINANT		DATE: May 08 2015		SITE: Thursday's Lotter	
Page of																											3 4	LAYER						

i

							Notes:
						×	COMPLEX
						NO	INCLUSION
	1-4	CUT	Ś	Thicket	Q	TATION TYPE:	VEGETATIO
						ECOSITE:	m
						SERIES:	COMMUNITY.
			1.1			CLASS:	COMMUNITY
	CODE	ELC		ON:	CLASSIFICATION:	CLASS	COMMUNITY
	(cm)		BEDROCK:	DEPTH TO BEDI	VARIABLE	/ VAR	HOMOGENEOUS /
	(cm)			DEPTH OF ORGANICS:		6	MOISTURE:
	G= NO	= 15	TLES/GLEY g	DEPTH TO MOTTLES /		S	TEXTURE: S
	OLD GROWTH	MATURE	MID-AGE	YOUNG	PIONEER		COMM. AGE
		= ABUNDANT	OCCASIONAL A:	R = RARE 0 =	= NONE	z	ABUNDANCE CODES:
-		25 - 50	12 10-24 1	0 < 10		ŝ	DEADFALL / LOGS:
	∕ > 50	Q 25-50	0 10-24	< 10		3S:	STANDING SNAGS:
	№ > 50	C 25 - 50	ð 10-24 (A <10		ALYSIS:	SIZE CLASS ANALYSIS:
	BA:				4	ON:	STAND COMPOSITION:
	0.5 m 7 = HT<0,2 m	HT 1 m 6 = 0.2 <ht 0<br="">60% 4= CVR > 60%</ht>	1=1 <ht 2="" 5="0.5<<br" m="">25% 3=25 < CVR</ht>	m 3=2 <ht 10="" m<br="">10% 2=10 < CVF</ht>	1=0% < CVR	1 = >25 m	HT CODES: CVR CODES
		1.6	1 2	FEAULOG	12	1:5	4 GRD. LAYER
RHACH	(RAT SO)	PUDIRG 21	CESS PRU	DORRA	4	2	3 UNDERSTOREY
					1	W	2 SUB-CANOPY
	M	NX PENI	LT 31 #	POPDE	1	2	1 CANOPY
	up to 4 sp) JT EQUAL TO)	R THAN; = ABOU	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL	SPECIES IN OR (>> MUCH GREATE	CVR	HI	LAYER
					N.	RIFIIO	STAND DESCRIPTION:
	G POREST G PLANTATION		G TREED	SAND DUNE BLUFF			G BEDROCK
	G SAVANNAH		G open	ROCKLAND BEACH / BAR			G OPEN WATER
	G BARREN G MEADOW	MIXED	COVER		CARB. BEDRK.	G CAR	SITE
	GFEN	BRYOPHYTE	800	G ROLL, UPLAND	BASIC BEDRK.	_	
	G STREAM	FORB			PARENT MIN.	PAR	G AQUATIC
		G PLANKTON G SUBMERGED FLOATING-LVD.	G NATURAL	G LACUSTRINE RIVERINE BOTTOMLAND	ORGANIC MINERAL SOIL	G ORGANIC G MINERAL	G WETLAND
	COMMUNITY	PLANT FORM	HISTORY	TOPOGRAPHIC FEATURE	SUBSTRATE	SUB	SYSTEM
					PTION	DESCRIPTION	POLYGON DI
		z	R.	UTME		UTMZ	CLASSIFICATION
		TIME start finish	Mars/2000		SURVEYOR(S)	SURVE	ĩ≤ I
	11	POLYGON:	~	tunders W.	ξ	SITE	ELC

Add Juniperns Virg. to drain polygon Conollorside & road to Poly 17



LEGEND CLASS	SOIL SURVEY MAP	MOISTURE REGIME	PORE SIZE DISC #2	PORE SIZE DISC #1	DEPTH OF ORGANICS	CARBONATES	WATER TABLE	BEDROCK	ally VA	MOTTLES 15cm	DEPTH TO / OF	SURFACE ROCKINESS	SURFACE STONINESS	EFFECTIVE TEXTURE	COURSE FRAGMENTS	C TEXTURE	COURSE FRAGMENTS	B TEXTURE S, 2L	COURSE FRAGMENTS	A TEXTURE CL	65 cm		HALL I	Sol a		1 d ctra	TEXTURE & HORIZON	SOIL 1	51		2		P/A PP Dr Position Aspe	COLO OM PINO	SOILS ONTARIO	ELC	
																												2				adf.	Slope	SURVEYOR(S):	DATE:	POLYGON:	SITE:
																												з				-	Class 7				
																									1			4				Control Providence	FASTING UTM				
										1													1					сл					NORTHING				
								9	K	rol	R	y or	0	y le	5° [P. Let	2 x x	en la	200	S	Yne	n a	S	GO	P	Road	10	5) 0) 0	2 Ro	Wal Se	3 VG	2	and and	de la construction de la constru	2/8	5	0
	75			5	THUN VIR	-																				POPU DELT	JUER	()(M	in the second se	ACERSUG	SPECIES CODE		LAYERS: 1 ABUNDANCE CODES: R	LIST	PLANT		1
	7																														1 2 3 4			URVEYO	\leq	GON:	SITE: T
Page of																		GRADU ST	10		٦.	3	5	ARIS TRH	E	Portentila SP.	Tox RAD	TARA OFF	ASTR 8	35 75	COL. SPECIES CODE	LAYER	Y 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER 0=OCCASIONAL A=ABUNDANT D=DOMINANT	1 DW 4 68	a8 2015	- B00 -	UNU TOWNSTON

	SITE: SURVEYOR(S):	3	DATE	POLYGON: TIME start	
ž P	UTMZ: UTME				
POLYGON DES	SCRIPTION				
SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANKTON G SUBMERGED	G LAKE
1	PARENT MIN.	G VALLEY SLOPE		G FORB	G STREAM
	ACIDIC BEDRK. BASIC BEDRK.	G TABLELAND G ROLL. UPLAND CLIFF		G BRYOPHYTE DECIDUOUS	C SWAMP FEN BOG
SITE	G CARB, BEDRK,	G TALUS G CREVICE / CAVE	COVER	G MIXED	G BARREN G MEADOW PRAIRIE
G OPEN WATER SHALLOW WATER		G ROCKLAND BEACH / BAR			G THICKET
G BEDROCK		G BLUFF	G TREED		G FOREST G PLANTATION
STAND DESCR	RIPTION:				
LAYER	CVR	SPECIES IN OR (>> MUCH GREATE	R THAN; > GREA	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL	up to 4 sp) JT EQUAL TO)
1 CANOPY					
2 SUB-CANOPY					
3 UNDERSTOREY					
4 GRD. LAYER			21		
HT CODES: 1 = CVR CODES 0=1 STAND COMPOSITION:	1 = >25 m 2 = 10 <ht 25="" n<br="">0≈ NONE 1=0% < CVR DN:</ht>	25 m 3 = 2 <ht .<br="" 10="" m="">/R 10% 2= 10 < CVR</ht>	4 = 1 < HT 2 m 5 = 25% 3= 25 < C1	-4HT_1 m 6 = 0.24HT 60% 4= CVR > 60%	0,5 m 7 = HT<0,2 m BA:
SIZE CLASS ANAL	ANALYSIS:	< 10	10 - 24	25 - 50	> 50
STANDING SNAGS:	ŝ	< 10	10 - 24	25 - 50	> 50
DEADFALL / LOGS:	S:	< 10	10 - 24	25 - 50	> 50
ABUNDANCE CODES:	S: N = NONE	R = RARE 0 =	OCCASIONAL	A = ABUNDANT	
COMM. AGE	PIONEER	YOUNG	MID-AGE	MATURE	OLD GROWTH
SOIL ANALYSIS	Ş				
		DEPTH TO MOTTLES	TLES / GLEY	g =	G=
MOISTURE:		DEPTH OF ORG	ORGANICS:		(cm)
	/ VARIABLE	PTH TO	BEDROCK:		-
COMMUNITY C	CLASSIFICATION:	ON:			
COMMUNITY	CLASS:				
COMMUNITY S	SERIES:				
EC	ECOSITE:				
VEGETATION TYPE	I TYPE:			0	
INCLUSION	Ž			CUN	<
COMPLEX	×				

			8		Notes:	
					COMPLEX	
					INCLUSION	
	SWDI	P	ar Lwam	0	VEGETATION TYPE:	
				SITE:	ECOSITE:	-
				IES:	COMMUNITY SERIES:	
				ASS:	COMMUNITY CLASS:	
	ELC CODE		ION:	CLASSIFICATION:	COMMUNITY CL.	1
	(cm)	В.	DEPTH TO BEDROCK:	VARIABLE	HOMOGENEOUS /	-
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STAND DESCRIPTION	IPTION:		
LAYER	HT CVR	(>> MUCH GREATER THAN; > GREATER THAN, = ABOUT EQUAL TO)	-
1 CANOPY	4	FRX VERN 2, VOD ELT ULMA	A MILL
2 SUB-CANOPY	H H	Kn & B Han > Ulmprothe	
3 UNDERSTOREY	~	RHUACIATIN > UIT RIDAY COU-SE	
4 GRD. LAYER	2	Leoshas Asterna	
HT CODES:	0= NONE 1- 0%	2=105K1 (2001) 3=425K1 (100) 4=15K1 (40) 4-15K1 (40) (40) 4-15K1 (40) 4-15K1 (
STAND COMPOSITION:	Ň	B A.	
SIZE CLASS ANALYSIS:	LYSIS:	A < 10 A 10-24 25-50 N > 50	
STANDING SNAGS:	ŝ	< 10 10-24 25-50 > 50	
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ABUNDANCE CODES:	S: N = NONE	E R = RARE O = OCCASIONAL A = ABUND=N1	
COMM. AGE	PIONFER	ER X YOUNG X MID-AGE MATURE ULD	
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HOMOGENEOUS	/ VARIABLE	PTH TO BEDROCK: 7 50	
COMMUNITY CLASSIFICATION:	LASSIFICA	ATION: ELC CODE	
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VEGETATION TYPE	0	Eveen this swarp Sw0 2-2	
INCLUSION		Marthador Frest FODB-1	
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	SOM, SURVEY MAP		MOISTURE REGIME	PORE SIZE DISC #2	PORE SIZE DISC #1	DEPTH OF ORGANICS	CARBONATES	WATER TABLE	BEDROCK	QLEY	MOTTLES	DEPTH TO / OF	SURFACE STOMNESS	EFFECTIVE TEXTURE	COURSE PRAGMENTS	C	COURSE FR		COURSE FR	A TEXTURE	20	4		R			TEXTURE X HORIZON	SOIL	Ú1	4	3 2	Π	PIA PP Dr	SOILS		
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	GRN KACE	PRUN VIR	KRAN CAT	CRAT SP	VII RIP	TARTH VIT	FORN SER.	NPE GLAN	KUB IDE	NARM	LINGAL	00/A.50	UIBBANE	PUAR WA	SALBERGA	Ŷ	Gar an	CAR And	tary of day	NALANA		Quertera	6		4.	Salix	5	Jug Nig R		FRAX FENN O		SPECIES CODE	ABUNDANCE CODES: R = RARE C	LIST	PLANT	1
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		CIRCUM B	MEN MC SD	GARBERS	(dystry	LUCNIT	ARINOVA	Rubonen	KIMRO	-15-102	<u> </u>	110/2011	SULALAN	CAR-SS	Acar sail		To	CANN LO	Same	CIR VIIG		-	VIOLA AFIN	TAKA OFF	SOLI CANA	FRA GVIR	CIPO LUTE	A.)	CARE GRAC	equi ARV	SPECIES CODE		3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER	H2 8-	223	
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COMMUNITY DESCRIPTION &	SURVEYOR(S):		DATE:	TIME		start finish
CLASSIFICATION UTMZ:		UTME:		UTMN:		
NOLTHIUSSE NOON 100	NOILDIGOS					

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM COMMUNITY	COMMUNITY
X TERRESTRIAL	G ORGANIC		G NATURAL	G PLANKTON	G LAKE
G WETLAND	C, MINERAL SOIL	G BOTTOMLAND	COLTURAL	G FLOATING-LVD	GRIVER
G AQUATIC	G PARENT MIN	G TERRACE		G GRAMINOID	G MARSH
	G ACIDIC BEDRK.	TABLELAND		GLICHEN	G SWAMP
	G BASIC BEDRK	G ROLL. UPLAND		G DECIDUOUS	
	C OLD DEPOIL	G TALUS		G CONFEROUS	G BARREN
SITE	C CAND BELINN	G CREVICE / CAVE	COVER	G MIXED	G MEADOW
		G ALVAR			
		G ROCKLAND	G ODEN		CAHICKET
C OPEN WALER		G BEACH / BAR	CCLEN		G SAVANNAH
C SHALLOW WATER		G SAND DUNE	SHRUB		G WOODLAND
VSURFICIAL DEP.	1	GBUDE			O FOREST
C BEDROCK			TREED		G PLANTATION

STAND DESCRIPTION:

n	ANU UESCRIFICA				
	LAYER	보	C VR S	HT CVR (>> MUCH GREATER THAN: > GREATER THAN: > GREATER THAN: > GREATER THAN: > GREATER THAN: > GREATER THAN: > GREATER THAN: > CVR	
-	CANOPY		1	FLX YENN > DUEBLES OPPOELT din	Ler.
2	2 SUB-CANOPY				-
3	UNDERSTOREY		0		
4	4 GRD. LAYER				

 HT CODES:
 1 = >25 m
 2 = 100+11
 25 m
 3 = 20+11
 10 m
 4 = 1+11
 2 m
 6 = 0.2
 6 = 0.2
 7 = HT<0.2 m</th>

 CVR CODES:
 0 = NONE
 1 = 0%
 6 CVR
 20%
 3 = 25 < CVR</th>
 80%
 4 = CVR
 80%

STAND COMPOSITION:	I	-	N N					BA:		
SIZE CLASS ANALYSIS:	IS:	X	< 10		10 - 24	0	A 10-24 0 25-50	2	> 50	_
STANDING SNAGS:		Q	< 10		10 - 24	2	0 10-24 R 25-50	5	> 50	_
DEADFALL / LOGS:		4	< 10	٩	10 - 24	0	25 - 50	2	50	
ABUNDANCE CODES:	N = NONE R = RARE 0 = OCCASIONAL A = ABUNDANT	R = R/	ARE 0=	OCCAS	SIONAL	A = AB	UNDANT			

COMM. AGE	PIONEER	VOUNG	MID-AGE	MATURE	OLD
					GROWTH
SOIL ANALYSIS					

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TEXTURE:	DEPTH TO MOTTLES / GLEY g =	G=
MOISTURE:	DEPTH OF ORGANICS:	(cm)
HOMOGENEOUS / VARIABLE DEPTH TO BEDROCK	DEPTH TO BEDROCK:	(cm)
COMMUNITY CLASSIFICATION:	ON:	ELC CODE
COMMUNITY CLASS:		

\mathbf{v}	COMMUNITY CLASSIFICATION:	ION:	ELC CODE
	COMMUNITY CLASS:		
	COMMUNITY SERIES:		
	ECOSITE:		8 0 5
	VEGETATION TYPE:		Swn 2-2
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	COMPLEX		100 - 100 -
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Notes:

PORE SIZE DISC #2 MOISTURE REGIME SOIL SURVEY MAP LEGEND CLASS	EFFECTIVE TEXTURE SURFACE STONINESS SURFACE ROCKINESS SURFACE ROCKINESS GLEY MOTTLES GLEY BEDROCK WATER TABLE CARBONATES DEPTH OF ORGANICS	A TEXTURE COURSE FRAGMENTS C COURSE FRAGMENTS C TEXTURE	PIA PP Dr Position
	Stor Norman	12 K2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Aspect
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			ss z Easting
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		5 Composition	
- CNW HEUULU	VIA ARROW ORAGEN LORAGEN TOXEARDI TOXEARDI TOXEARDI TOXEARDI	HUMANAMEN OUBERNER DUERNER DUERNER DUERNER	ELC PLANT SPECIES LIST LAVERS: 1= ABUNDANCE CODES: R= SPECIES CODE SPECIES CODE SPECIES CODE
AAA AAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA			TTE: ATE: 2 = SUB 2 = OCCAS
ANN Ward Mary		TAROFA CARLU CARLU CARLU CARLUN CARCA CARCA CARCA CARCA CARCA CARCA CARCA	N: 105/15/15 CCANOPY 3= UNDERSTOREY COMMIL A = ABUNDANT D = 1 UD LUL 4 COL. 4 COL. 5 M KE 5 M
		TERMICU TAROFF CARLON ASTNONA ASTNONA SERMICU SERMICU	SPECIES CODE T D= DOMINANT SPECIES CODE T ALL PENT ALL PENT ALL PENT T ALL PENT
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POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM COMMUNITY	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G BOTTOMLAND	G CULTURAL	G FLOATING-LVD	C RIVER
G AQUATIC	G PARENT MIN	G TERRACE		G GRAMINOID	G STREAM
	G ACIDIC BEDRK	G TABLELAND		GLICHEN	G SWAMP
	G BASIC BEDRK	G ROLL UPLAND		G BRYOPHYTE	N LEN
		G TALUS		G CONFEROUS	G BARREN
SITE	O LAND. DEUNN.	G CREVICE / CAVE	COVER	G MIXED	G MEADOW
		C ROCKLAND			G THICKET
C OPEN WATER		G BEACH / BAR	G OPEN		G SAVANNAH
C SHALLOW WATER		G SAND DUNE	G SHRUB		G WOODLAND
G BEDROCK			G TREED		G PLANTATION

STAND DESCRIPTION:

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	LAYER	ΗT	HT CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
-	CANOPY			
3	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER			
토	HT CODES:	t = >25 π	1 2 = 10<	1=>25 m 2=10cHT 25 m 3=2cHT:10 m 4=1cHT:2 m 5=0.5cHT.1 m 6=0.2cHT.0.5 m 7=HTc0.2 m
				the state of the same of a second state of the second state second state same

0= NONE 1= 0% < CVR 10% 2= 10 < CVR 25% 3= 25 < CVR 60% 4= CVR > 60% CVR CODES

STAND COMPOSITION:	:N						BA:	
SIZE CLASS ANALYSIS:	-YSIS:	v -	< 10	10 - 24		25 - 50		> 50
STANDING SNAGS:	ä	v	< 10	10 - 24		25 + 50	-	> 50
DEADFALL / LOGS:	ii	×	< 10	10 - 24		25 - 50		> 50
ABUNDANCE CODES:	N = NONE	R = RARE	0 = 00	O = OCCASIONAL	A = ABUNDANT	NDANT		
COMM. AGE	PIONEER	YOUNG		MID-AGE	W	MATURE	OLD	
							ť.	GROWTH

SOIL ANALYSIS:			
TEXTURE:	DEPTH TO MOTTLES / GLEY	g =	G=
MOISTURE:	DEPTH OF ORGANICS:		(cm)
HOMOGENEOUS / VARIA	HOMOGENEOUS / VARIABLE DEPTH TO BEDROCK:		(cm)
COMMUNITY CLASSIFICATION:	ICATION:		ELC CODE
COMMUNITY CLASS:			
COMMUNITY SERIES:			
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0	COMMUNITY CLASSIFICATION:	FICATION:	ELC CODE
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SOIL SURVEY MAP	MOXSTURE REGIME	PORE SIZE DISC #2	PORE SIZE DISC #1	DEPTH OF ORCANICS	WATER TABLE	BEDROCK	any	MOTTLES	DEPTH TO / OF	SURFACE STONMESS	EFFECTIVE TEXTURE	COURSE FRAGMENTS	C TEXTURE	COURSE FRAGMENTS	B TEXTURE	A TEXTURE	And A	Dal.					SOIL 1		ω Ν		P/A PP Dr Position Aspect			<u>п</u>
																	le .	62		55	12,0	° //					Slope ect % Type Class	SURVEYOR(S):	POLYGON: DATE:	SITE:
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RHAM CATH	VITI RIPH	1	TOYI RADI	CRAT 2	FRINDI FRINDI	PEUN VIKT	ANG DAT	LONI TATA	LIND BENZ	LIPE KIWN	Come Darr						13(1) KAUE	QUEL MU	2		51	-	FRAX PENN	-	Dear of 1	SPECIES CODE	LAYERS: 1=0 ABUNDANCE CODES: R=1	LIST	PLANT	ELC
Ä	DA	AAA	0	77	PC		0	P.R.	70	00	AN						T		7	12	RRR R*		D A C	~	ت م		LATERS: 1= CANOPY 2= SUB-CANOPY 3= UNDERSTOREY 4= GROI ABUNDAMCE CODES: R= RARE 0= OCCASIONAL A= ABUNDANT D= DOMINANT	SURVEYOR(S):	DATE: JUNE 213015	J SITE: THUNDER
7 P:									_				-									1					BUN	SH	- 1-1	MIN
											T			h	r 1	POOD PELT	SAME MELT	\sim	ONIC SENS		ARIS TRYP	CRYM SI	GLYS STRI	CARE BLAN "		SPECIES CODE	DERSTOREY 4 = GROUND (GI DANT D = DOMINANT		1015	War with tim
															50	 - 1	A	(PolyPody) K	SENS	LUTI			GLYS STRI	CRAC GLAN . Mr ×	1 2 3 4	LAYER	JND (ORD.) LAY	SURVEYOR(S): SH	015	with

ELC	SITE			POLYGON:	6
	SURVEYOR(S)		DATE	TIME: start finish	
	UTMZ:	UTME	- uт	UTMN	
POLYGON DE	DESCRIPTION	-			
	SUBSTRATE	E TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
GWETLAND	G ORGANIC				C POND
G AQUATIC	~ ~	5.5	2		G STREAM
	G BASIC BEDRK.				
SITE	G CARB, BEDRK		COVER		G BARREN
G OPEN WATER		G ROCKLAND	G OPEN		G SAVANNAH
G SHALLOW WATER		G BEACH / BAR			G FOREST G PLANTATION
STAND DESCRIPTION	IPTION:				
LAYER	HT CVR	SPECIES IN ORDER OF I (>> MUCH GREATER THAN;	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL	ING DOMINANCE (L ER THAN; = ABOU	ip to 4 sp) IT EQUAL TO)
1 CANOPY		KOPU PETT	~ MAKIE	NN < NN	MANNE
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HT CODES: CVR CODES	1=>25 m 2=1 0= NONE 1=0	2 = 10 <ht 10="" 25="" 3="2<HT" 4<br="" m="">1= 0% < CVR 10% 2= 10 < CVR</ht>	4 = 1 <ht 1<br="" 2="" 5="0.5<HT" m="">R 25% 3= 25 < CVR 60%</ht>	<ht-1 6="0.2<HT-0.5<br" m="">60% 4= CVR > 60%</ht-1>	0.5 m 7= HT<0,2 m
STAND COMPOSITION:	, ,				BA:
SIZE CLASS ANA	ANALYSIS:	A <10	10 - 24	25 - 50	K > 50
STANDING SNAGS:	ŝ	0 < 10	0 10-24	25 - 50	R > 50
DEADFALL / LOGS:		0	0 10-24	⑦ [™] 25 - 50	12 > 50
ABUNDANCE CODES:	S: N = NONE	E R=RARE O=	OCCASIONAL	A = ABUNDANT	
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E ROLLING TO SUPPORT SO NOC SENS, GLYC LY MESIC UPL RHIAM CATH, RHIAM CATH,	Procently							TALLY 2		SURVEYOR(S):	DATE:	SITE:
G To GLYC HTH,	B S S							TALLY 3		(S):		
TOPOGRAA SOME WE SOME WE YC STRI PLAND WI DADIA JATT	SMUX / Populus							TALLY 4				
ROLLING TOPOGRAPHY, SUPPORT SOME WETLAND INDI CSENS, GLYCSTRI MESIC UPLIMD WITH DENS E HAM CATH, FRAX PENN UN	alus new tru							TALLY 5				
DINDICE	1 - 1 m Tonoro							TOTAL				
SUBTLE ROLLING TOPOGRAPHY, AREAS SUPPORT SOME WETLAND INDICATORS, MINANTLY MESIC UPLAND WITH DENSE ATSI, RHAM CATH, FRAX PENN UNDERSTORY SILDNI I MANARY DADIA ADD SMALL ALMAN				100				REL. AVG				
s, mey												

COMPLEX	INCLUSION MAC -2	VEGETATION TYPE: SWD 4-(ECOSITE:	COMMUNITY SERIES:	COMMUNITY CLASS:	COMMUNITY CLASSIFICATION: ELC CODE	DEPTH OF ORGANICS:	-	COMM. AGE : PIONEER YOUNG X MID-AGE MATURE OLD GROWTH	A = ABL	0 <10 U 10-24 N	STANDING SNAGS: 6 < 10 d 10-24 25-50 7 > 50	SIZE CLASS ANALYSIS: 6 <10 17 10-24 0 25-50 7 >50	8A:	CVR CODES 0= NONE 1= 0% < CVR 2 10% 2= 10 < CVR 25% 3= 25 < CVR 80% 4= CVR > 80%	CODES: 1=>25 m 2=104H723 m 3=24H710 m 4=14H722., 5=0.54H71 m 4=0.24H730 m 7=H740	GRD. LAYER	1-0 - 0 - 0 - 0 - 0 - 1 A	CANOPY SAL-SO > POP DEL	HT CVR (>> MUCH GR	STAND DESCRIPTION:		G OPEN WATER G SHALLOW WATER G SHALLOW WATER G SHALLOW WATER G SHALLOW WATER G SHALLOW WATER G SHALLOW WATER G SHALLOW WATER G SHALLOW WATER G SHALLOW WATER G SHALLOW WATER	COVER G MIXED	BASIC BEDRK. G CLIFF	G ACIDIC BEDRK. GTABLELAND GLICHEN	G CULTURAL G FLOATING-LVD.	G DRIGANIC G LACUSTRINE GYATURAL G PLANITON	SYSTEM SUBSTRATE TOPOGRAPHIC HISTORY PLANT FORM COMMUNITY	POLYGON DESCRIPTION	CLASSIFICATION UTMZ: UTME: UTMN:	DESCRIPTION & (inist)	Valeury Walers POLYGON:		
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SOIL SURVEY MAP	MOISTURE REGIME	PORE SIZE DISC #2	PORE SIZE DISC #1	DEPTH OF ORGANICS	CARBONATES	WATER TABLE	BEDROCK	GLEY	MOTTLES	DEPTH TO / OF	SURFACE ROCKINESS	SURFACE STONINESS	EFFECTIVE TEXTURE	COURSE FRAGMENTS	C TEXTURE	COURSE FRAGMENTS	BTEXTURE	COURSE FRAGMENTS	A TEXTURE				1			TEXTURE & HORIZON		5 . A		2	PIA IPP Dr		SOILS ONTARIO	ELC		
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	06	n	PRAIRIE			G CREVICE / CAVE		SITE
FRIAURE	RO	QUPALIN	BARREN			GCUFF	G CARB BEDRK	
GLYSTRI	4	SML-SC'	TEN			G ROLL UPLAND	G ACIDIC BEDRK.	
CUJO SAUS	*	HOPOKLT	GRIVER	G FLOATING-LVD.	C CULTURAL	C TERRACE	G PARENT MIN.	GAQUATIC
	1 2 3 4 555		POND		GRATURAL		G DRGANIC	G TERRESTRIAL
			COMMUNITY	PLANT FORM	HISTORY	FEATURE	SUBSIKAIE	STSIEM
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INCLUSION	VEGETATION TYPE:	EC	COMMUNITY SERIES:	COMMUNITY CLASS:	COMMUNITY CLASSIFICATION:	Ö	•••	SOIL ANALYSIS	COMM. AGE	ABUNDANCE CODES:	DEADFALL / LOGS:	STANDING SNAGS	SIZE CLASS ANALYSIS	STAND COMPOSITION:	HT CODES:	4 GRD. LAYER	3 UNDERSTOREY	2 SUB-CANOPY	1 CANOPY	LAYER	STAND DESCRIPTION	G OPEN WATER	SITE		G AGUATIC	'RIAL		POLYGON DE	-	MUNITY	ELC
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		G RIVEHINE	Constrant	C SUBMERULD	
G WE TLAND	D MINEHAL SOL	Geul Marte		0 1101 101 101 10	C T
G ADUATIC	G PARENT MIN	C IFARA F		C FURH	GLAPTH
		A VALLEY A		Gueres	C Linking
	C ACIDIC BEDIKA	O PULLING		G HOV PHO E	
	G BASIC BEDRK	Cuth Crush	5	GDECIDENCE	ċ
		G TALI'S		C CONFERINGS	111110
SITE	CI FOUR DURING	CCHEVICE LAVE	COVER	CWINED	
		XALAN			G 740-51
G OPEN WATER		C ROCKLAND	G OFFIN		G service
G SHALLOW WATER		C Serviture	G antice		Harmont
C BURFICIAL DLP		GBLUFF			
C BEDROCK			C THEFU		

STAND DESCRIPTION	NOITGIN	
LAVER	HTC	HT CVR (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
	2 mar	7 Quer 500 > Carva ouel Acar rub > Frax per n, Acer sas >> Ulm ame, Pop delt
2 SUB-CANOPY	M	3 Quev She > Carve aver Arer rub 1
3 UNDERSTOREY	14	Solve Frox Perty Duor sho Carrya orat > Aler gro >/ Carp car
4 GRD. LAYER) O	2 Asiers free seedlings
HT CODES:	1= 2011 2	1=25bir 2=10kHL2bir 3=2kH2Num 4=1kH1Zir 5=15VH1 *: 6=
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(cm)	(cm)	ELC CODE							
MOISTURE: DEPTH OF ORGANICS	HOMOGENEOUS / VARIABLE DEPTH TO BEDROCK:	COMMUNITY CLASSIFICATION:	COMMUNITY CLASS:	COMMUNITY SERIES:	ECOSITE:	VEGETATION TYPE:	INCLUSION	COMPLEX	Notes:

ULD GROV/TH

MID-AGE X MATURI

A = ABUND4h1

ABUNDANCE CODES: N = NONE R = RARE 0 = OCCASIONAL

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A 10-24 O 25-52 A 10-24 O 25-55

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< 10 < 10 < 10

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SIZE CLASS ANALYSIS:

STANDING SNAGS: DEADFALL / LOGS:

STAND COMPOSITION

(crn)

G= 20

DEPTH TO MOTTLES / GLEY $9 = \sqrt{6}$ DEPTH OF ORGANICS:

SOIL ANALYSIS: TEXTURE: 516

Notes⁻

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		SOIL SURVEY MAP	MOISTURE REGIME	PORE SIZE DISC #2	PORE SIZE DISC #1	DEPTH OF ORGANICS	CARBONATES	WATER TABLE	BEDROCK	aley	MOTTLES	DEPTH TO / OF	SURFACE ROCKINESS	SURFACE STONINESS	EFFECTIVE TEXTURE	COURSE FRAGMENTS	C TEXTURE	COURSE FR	BITEMURE	0	A AN TEXTURE		L'	TEXTURE X HORIZON	5	1 PIA PP Dr		SOILS		
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SALI BEBB FRAX PENN (LIND BONZ quer nally ALEN CAT CEN SACH ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT LAYERS: LUBY IDAT QUER LICO PUN SORD MAY OUAT ON NEACE MART (MUS INU RT VITA ON R THAY CORD ITI KUPA LUBR PALU GNI TATA UMA AQUER O SPECIES CODE PLANT SPECIES LIST
 SURVEYOR(S):
 Surveyor(S):

 1 = CANOPY
 2 = SUB-CANOPY
 3 = UNDERSTOREY
 4 = GROUND (GRD.) LAYER
 ろ T N P 0 1 2 3 4 75 R 2 LAYER DATE: SITE: POLYGON: 27 7 R C P Ę 7 B Ĉ 2 A 5 R B lik HUUNDER COL. 6 · ~ CANE LACU Botte CYU CHRE GRAC CICH MACU Genus SP DRYO :P CARE RELED ASTG MACK ONINCSONS LARC LATI antincialors CARE INTU ARROW FURD Onlae Sens ASCL INCA LAL STICI SSAMP SYMPLANC BUA VIRG EEV2 SMOOTOP NAG VIRG IMOIA CAPE KANY ABOR ARE ROSE JSHH 3UL SPECIES CODE というちゃ -2 3 4 LAYER RPIC 70 7 $\overline{\sim}$ 2 $\overline{\sim}$ 2 R 70 3 R NI 3 0 0 N 73 To Э $\overline{\sim}$ 0 7 8 X X X COL 10 · Page ? (HOTO .1 Le to

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	SITE			POLYGON:	
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_	UTMZ: U	UTME:	Ч	UTMN	
POLYGON DE	SCRIPTION				
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G TERRESTRIAL	G ORGANIC		NATURAL	G PLANKTON	GLAKE
GWETLAND	G MINERAL SOIL		CULTURAL	G FLOATING-LVD.	GRIVER
G AQUATIC				GFORB	
	G BASIC BEDRK.	G ROLL. UPLAND		G BRYOPHYTE G DECIDUOUS	G FEN G FEN
SITE	G CARB, BEDRK.		COVER	G CONIFEROUS	G MEADOW
G OPEN WATER		GROCKLAND	GOPEN		G THICKET
G SHALLOW WATER		G BEACH / BAR			G SAVANNAH G WOODLAND G FOREST G PLANTATION
	DIDTION				
ſER	HT CVR	SPECIES IN ORDER OF I	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL	ING DOMINANCE (L THAN; = ABOU	up to 4 sp) JT EQUAL TO)
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CVR CODES	D= NONE 1= 0% < CVR	VR 10% 2= 10 < CVR	25% 3= 25 < C	VR 60% 4= CVR > 60%	
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STANDING SNAGS:	ÿ	< 10	10 - 24	25 - 50	> 50
DEADFALL / LOGS:	ŝ	< 10	10 - 24	25 - 50	> 50
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SOIL ANALYSIS	Ś				
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1= 0% < CVR 10% 2= 10 < CVR 25% 3= 25 < CVR 60% 4= CVR > 80%
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BA:</td> <td>1 2=10cHT.25 m 3=2cHT.10 m 4=1cHT 2 m 5=0.5cHT.1 m 5=0.2cHT.05 m 7 = HT-02 m
1=0% ≪ CVR = 10% 2=10 < CVR = 23% 3=25 < CVR = 60% 4= CVR > 60%
BA:</td> <td>1 2=104H1,22m 3=2541,10m 4=144H1 2m 5=03411,1m 5=024H1,00m (=1140,2m)
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 | 1 2= 10-HT 25 m 3= 2cHT 10 m 4= 1 cHT 2 m 5= 0.5cHT 1 m 6= 0.2cHT 0.5 m 7 = HT-0.2 m
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 | BA: | N = NONE R = RARE 0 = OCCASIONAL A = ABUNDANT PIONEER Ivolving X Imb-AGE VMATURE OLD
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 | v2bm 2=104H1 2bm 3=24H 10m 4=14H1 2m 5=0.24H1 0.5m 7=0.42H NONE 1=0% CVR 10% 2=10 CVR 25% 3=25 CVR 60% 4=CVR 60% SIS: <10 | SIS: < 10 10 - 24 25 - 50 > 50 < | DEPTH TO MOTTLES / GLEY g = G= DEPTH OF ORGANICS: (cm) DEPTH TO BEDROCK: ELC CODE | DEPTH TO MOTTLES / GLEY g = G= DEPTH OF ORGANICS: (cm) DEPTH TO BEDROCK: ELC CODE
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 | >25 m 2= 104HT_25 m 3= 24HT_10 m 4 = 14HT 2 m 5= 0.54HT_1 m 6= 0.24HT_0.5 m 7 = HT<0.2 m | >25 m 2= 104H7_25 m 3= 24H7_10 m 4= 14H7_2 m 5= 0.54H7_1 m 6= 0.24H7_0.5 m 7= H7=0.2 m NOME 1= 0% < CVR
 | •22m 2 = 10 +HT_25m 3 = 2 +HT_10m 4 = 1 +HT_2 m 5 = 0.5 +HT_10 m 6 = 0.2 +HT_0.5 m 7 = HT-0.2 m NONE 1 = 0% < CVR | v2bm 2=104H, 2bm 3=24H, 10m 4=14H, 2m 8=0.54H, 10m 8=0.24H, 10m 7=144, 2m : = 0% < CVR 10% 2=10 < CVR 25% 3=25 < CVR 60% 4= CVR 60% | SIS: < 10 10 - 24 25 - 50 > 50 N = NONE R = RARE 0 = OCCASIONAL A = ABUNDANT IPIONEFER VOUNG X MID-AGE VMATURE IOLD | DEPTH TO MOTTLES / GLEY g = G= DEPTH OF ORGANICS: (cm) DEPTH TO BEDROCK: ELC CODE
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| SCRIPTION SUBSTRATE TOPOGRAPHIC HISTORY PLANT FORM COMMUNITY G OPOGRAPHIC FLANTIFIC MILTERSACE GAUGESTRIALE GAUGESTRIALE G ANDERAL SOL GENETIFIANCE GAUGESTRIALE GAUGE
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+ 0 + CVR - 25% 3 = 25 + CVR - 60% SIS: I + 0 + CVR - 25% I + 0 + CVR - 25% I + 0 + CVR - 25% I + 0 + CVR - 26% | Nove: 1 = 10% - CVR 10% 2 = 10 < CVR 60% 4 = CVR > 60% SIS: I < 10 10 - 24 25 - 50 > 50 N = NONE R = RARE O = OCCASIONAL A = ABUNDANT PIONEER YOUNG X MID-AGE Y MATURE OLD DEPTH TO MOTTLES / GLEY g = G= (cm) | SIS: < 10 10 - 24 25 - 50 > 50 N = NONE R = RARE O = OCCASIONAL A = ABUNDANT PIONEER YOUNG X MID-AGE YMATURE OLD DEPTH TO MOTTLES / GLEY g = G= (cm) | TION:
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 | v25m 2= 10cHT, 25m 3= 2cHT, 10m 4= 1cHT 2 m 6= 0.2cHT 0.5 m 7 = HT=0.2 m NONE 1= 0% < CVR | NONE 1=104HT 2:sin 3=24HT 1:on 4=14HT 2:sin 5=0.24HT 0:sin 7=HT NONE 1=0% CVR 2:Sin 1:o 1:o 2:sin 2:sin 1:o SIS: 1 < 10 1:o 24 2:s 50 > 50 N=NONE R=RARE 0 = OCCASIONAL A = ABUNDANT Signature OLD PIONEER VOUNG X MID-AGE VMATURE OLD DEPTH TO MOTITLES / GLEY 9 = G= DEPTH TO BEDROCK: (cm) | Nove 1= off_< CVR 10% 2= 10 < CVR 25% 3= 25 < CVR 60% 4= CVR > 60% 'SIS: I <10
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STAND		DATE:					
CHARACTERISTICS		SURVEYOR(S):	(S):	9	9) 31		
TREE TALLY BY SPECIES							
PRISM FACTOR						į	Ê
SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL.
						1	
							4
TOTAL							100
BASAL AREA (BA)				N			
DEAD						1	10
STAND COMPOSITION:				ĩ			

MMUNITY PROFILE DIAGRAM

LEGEND CLASS TEXTURE	SONL SURVEY MAP UNITIS	MOISTURE REGIME	PORE SIZE DISC #1	DEPTH OF ORGANICS	CARBONATES	BEDROCK		PROMINENT MOTTLES	DISTINCT MOTTLES	SURFACE ROCKINESS	SURFACE STONINESS	EFFECTIVE TEXTURE	COURSE FRAGMENTS	COURSE FRAGMENTS	B TEXTURE	COURSE FRAGMENTS		10.00			The next	TEXTURE X HOREON	SOIL ASSESSMENT		7				PIA P Dr Type		50 ILS ONT AR IO	ELC
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	314				~						000)		0	a mon	44	AL ANITO	P.W.	No. M		Ja.	00000	100		J. A.Y	a show	Ver Co.	71.1.10				
Ling Reins	3Vt UNB-SR		1 SAUSCAIS	11-F inture	ANAN SOM	2 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	CARMIST	AC	Mags ash	25114	102-20	1 KINNA. CS	AR	1 30 1 O	R	22	AL MANG / INVATI	huy T	We M ISTNAND	NA 0 Y	A UKINBA	A	Minnik	20	1		ACREMBL				LIST	PLANT
		Soane	SAUSEBIS	ile inner	Sanna	10000 M 77 M	CARHIST	AG	1241 1241	26714	Boz-	1-81	Ma	20 1	B)	22	1	L Dr.	NSTINDA.	0 110	A UKINGA R	SAL	1E	ROPPENT	1							
	MULS-SR.	1 Soprie n	SAUSEBIS	ILE INTER	1 SAMAR		(Artist	PG /	14		BO2-25 AW	1 Euron CC	A	20 1	B)	22	/INUAT-1	L Dr.	INSTRUCTURE	0 110	N ABWIND	SALAM C	WINNER H	RODALT D	aughter 000	Peusee R	ACR EUBR		LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY ABUNDANCE CODES: R = RARE 0 = OCCASIONAL A = ABUI			DATE:
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61 1	TOXENTEL K COM? X2 PALTE	· Some n	SAUSEBS R	E INULO	2 Million 1		NEDIMA -	2		2	BR-25 IN I MAGNEY ?	LEWMARCS ME MITCHART AN	CAR SP IN	122001 , 12 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BA WELT	ZIUSWAN	VINUATI P. P. MULINIE R.		ISTADAR RE	I TR A	UKMBA R I Redderseder	SALAM C	WWWWIT IN Sm	ROPALT D AGGEV/	aughten 00 0 bioster)	Peusel R	ACTEMBE A D	SPECIES CODE 1 2 3 4 COLL. SPECIES CODE 1 2 3 4	LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY ABUNDANCE CODES: R = RARE 0 = OCCASIONAL A = ABUI			r1

COMMUNITY DESCRIPTION &	YOR(S)		DATE:	TIME start finish	
POLYGON DE	DESCRIPTION			0.000	
	SUBSTRATE	TOPOGRAPHIC	HISTORY	PLANT FORM	COMM UNITY
	0000.777	FEATURE	E		
TERRESTRIAL WETLAND	ORGANIC MINERAL SOIL		CULTURAL	D PLANKTON SUBMERGED	
	ACIDIC BEDRK	TERRACE VALLEY SLOPE TABLELAND		GRAMINOID	SWAMP
	_				BOG
SITE	CARB, BEDRK	CREVICE / CAVE	COVER		BARREN MEADOW PRAIRIE
OPEN WATER SHALLOW WATER		BEACH / BAR	OPEN		
BEDROCK		BLUFF			
STAND DESCR	DESCRIPTION:				
LAYER	HT CVR	SPECIES INORDER OF D >> MUCH GREATER THAN;	RDER OF DECRE A ER THAN; > GREA	; > GREATERTHAN; = ABOUT	up to 4 sp) UT EQUAL TO)
CANOPY					
SUB-CANOPY	6				
UNDERSTOREY					
GRD. LAYER					
CVR CODES	0= NONE 1= 0% <	0% < CVR 10% 2= 10 < CVR 25%	'R 25% 3= 25 < CVR	60% 4= CVR > 60%	
STAND COMPOSITION:	ITION:				BA:
SIZE CLASS ANALYSIS:	LYSIS:	< 10	10 - 24	25 - 50	> 50
STANDING SNAGS:	is:	< 10	10 - 24	25 - 50	> 50
ABUNDANCE CODES:	S: N=NONE	R=RARE 0=	OCCASIONAL	A = ABUNDANT	06 <
	PIONEER		MID-AGE	MATURE	GROWTH
SOIL ANALYSIS:	<u>IS</u>	DEPTH TO MOT	MOTTLES / GLEY	a 11	G=
MOISTURE:			ANICS:		(ст)
HOMOGENEOUS	/ VARIABLE	DEPTH TO BEDROCK:	ROCK:		(cm)
COMMUNITY C	CLASSIFICATION:	ION:			
COMMUNITY CLASS:	CLASS:			CODE:	14
COMMUNITY SERIES:	SERIES:			CODE:	
EC	COSITE:			CODE:	
VEGETATION TYPE:	N TYPE:			CODE:	
INCLUSION	N			CODE:	
				CODE:	

		ISITE:							•	_
ELC		POLYGON:		275	h	101	+ sule	le c	Por	5
STAN D & SOIL CHARACTERISTICS		DATE:								
REE TALLY BY SPECIES:	ה 1500									
PRISM FACTOR	Ř				*					
SPECIES	TALLY	TALLY	TALLY 3	TALLY	TALLY 5	TALLY 6	TALLY	TALLY 8	TOTAL	REL. AVG
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BASAL AREA (BA)										
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LEY (G)	G=	G=	G =	G =	G=	G II	G=	Gu		
DEPTH OF DRGANICS										
IEPTH TO							1			
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COMMUNITY	SURVEYOR(S)	- 4	DATE	TIME: start finish		
CLASSIFICATION	UTMZ: UT	UTME		UTMN		
POLYGON DE	DESCRIPTION	•	5			
SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY	
GTERRESTRIAL	I				GLAKE	
G WETLAND	MINERAL SOIL PARENT MIN.	G BOTTOMLAND G TERRACE		G FLOATING-LVD	G RIVER G STREAM	
	G ACIDIC BEDRK	G TABLELAND G ROLL, UPLAND G CLIFF			G SWAMP BOG	
SITE	G CARB BEDRK.	G TALUS G CREVICE / CAVE	COVER		G BARREN G MEADOW	
GOPEN WATER		G BEACH / BAR	G SHRUB		G THICKET G SAVANNAH G WOODLAND	
			G TREED		G PLANTATION	
STAND DESCE	DESCRIPTION					
LAYER	HT CVR	>> MUCH GREATER THAN;	R THAN; > GREAT	SPECIES IN ORDER OF DECREASING DOMINANCE (UP to 4 SP) MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL	T EQUAL TO	
1 CANOPY		NILEMAL	in the second se	10		
3 UNDERSTOREY	2	7	2 7/10	1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	1	
4 GRD. LAYER		AN MA	- WAT C	- JUNI -	5	
HT CODES: CVR CODES	1=>25 m 2= 10 <ht.25 m<br="">0= NONE 1= 0% < CVR - 1</ht.25>	m 3 = 2 <ht 10="" m<br="">10% 2= 10 < CVR</ht>	4=1 <ht 2="" 5="<br" m="">25% 3=25 < C1</ht>	0.5 <ht 0.5<br="" 1="" 6="0.2<HT" m="">/R 60% 4= CVR > 60%</ht>	.5 m 7 = HT<0.2 m	١
STAND COMPOSITION:	ON:	-		2	BA:	
SIZE CLASS ANALYSIS:	LYSIS:	< 10	10 - 24	25 - 50	> 50	
STANDING SNAGS:	ŝ	< 10	10 - 24	25 - 50	> 50	
DEADFALL / LOGS:		< 10	10 - 24		> 50	
ABUNDANCE CODES:	N = MONE			A - ABUNDANI	2	
SOIL ANALYSIS	IPIONEER	YOUNG	MID-AGE	MA URE	GROWTH	
		DEPTH TO MOTTLES / GLE	~) = D	G=	
MOISTURE:		DEPTH OF ORGANICS:	ANICS:		(cm)	
HOMOGENEOUS	/ VARIABLE	DEPTH TO BEDF	BEDROCK:		(cm)	
COMMUNITY C	CLASSIFICATION:	Ň		ELC	CODE	
COMMUNITY CLASS:	CLASS:					
COMMUNITY SERIES:	ERIES:					
EC	ECOSITE:					
VEGETATION TYPE:	TYPE:					
INCLUSION	ž					
COMPLEX	×					
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COMMUNITY PROFILE DIAGRAM	STAND COMPOSITION:	DEAD	BASAL AREA (BA)	TOTAL						SPECIES	PRISM FACTOR	TREE TALLY BY SPECIES	CHARACTERISTICS	STAND	ELC	Juchuster	•
	Ž									TALLY 1	R	CIES	TICS			-ek	
S			ан 1							TALLY 2			SURVEYOR(S):	DATE:	SITE: POLYGON:		ç L
E S					12				2.4	TALLY 3			(s):	1.000	26.	-	J
Re										TALLY 4	8				\sim		
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	LE CHIND CLASS	SOIL SURVEY MAP		MONETI BEE DETENDE	PORE SIZE DISC #2	PORE SIZE DISC #1	IN PTH OF DHEANICS	CARBONATES	WATER TABLE	BEDHOCK	ฉ	MOTTLES	DEPTH TO / OF	SURFACE ROCKINESS	SURFACE STONINESS	EFFECTIVE TEXTURE	COURSE FRAGMENTS	C TEXTURE	COURSE FRAGMENTS	(i) TI XTURI,	COURSE FRAGMENTS	A HIXIURE					10		TEXTURE × HORIZON	·	5	» «	2		PIA PP Dr	1	SOIL		
	ASS	WAP			5	2	ICS	IES	HE)CK	GIEY	LES		FSS	ES:	JAG	NIS	JANE	NIS	UH4.	SIN	が高		<u> </u>					70N						Or Position Aspect		SOILS ONTARIO		
						'n																								2					t % Type	Sinno	DATE:	POLYGON:	
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_		4	poly	2 15	2	2000				8	to all and	2200	A. CAL	~								Compini	NICONEX	1-1M1-1		Convace /		thicket	bawood	>						Nde 1	Som	5	18
N A	1.44 1.16	Orn Bri	Khann cat. U	Kyres aller	Lonit	CUATO	IDXICO YEA			NIL COMOL	Driaeacha	Jalixbeb	those entral v	2												Just nigr	Quar mac	() mayne	22		Acer horan	Frax pen-			ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT	LIST	SPECIES		T
	1.1	_	A A	20	R	0 4	-	~	The state	 - -	37	N N														P	R	7 R	R	RR	7	K K	1 2 3 4	LAYER	R = RARE O = OCCASIONAL /	SURVEYOR(S)	DATE: Oc	POLYGON:	
		2		D				F																TX.	5				-		4			<u>i</u>	A = ABUNDANT		15,2015		Conversion of the
	Shot sold	TOP I AM	10001	aladih	Muchs JAN	too andro	F+ (4-Y	with sall	Lathary Se	yd langru	LUN PELL		hal anad	John Moly	Satar high	Trunell vula.	Ξ.	CILL SO	FI Ars TOM	1998	1	not yrin	<u>-</u>	Fidens carries.	Solianal	0	Plan hidror	Ports land	Varevoust	Ast late	Ast long	Ast nova			= ABUNDANT D = DOMINANT				
Page of									dovides is x	1	1×1	3		e K	37			P A	0	20	2	7	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~) O	A	X	入		0		0	0	1 2 3 4	LAVER		TAVED			
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	SILE		ű.	POLYGON	
	SURVEYORISI	3 F & C1	14		atat* 1 - 13 - 1
DESCRIPTION &					
CLASSIFICATION UIM	UTM2	U (ME	U1541	z	
POLYGON DESCRIPTION	SCRIPTION				

	HISTORY PLANT FORM COMMUNITY		COVER CONFERENCE CONFE	
	TOPOGRAPHIC HIST FEATURE	G UCUSTRAN BANK G ATURA BAUTUALAL ATERACE ATERACE ATERACE ATARLAN CALLUPAN COL	avt	G FOCKLAND G BEACH- BAP G BLUFF G BLUFF G BLUFF
ESCRIPTION	SUBSTRATE	G urganic G minepal sol Betarfiti min G acidic bedra G basic bedra	G CARS BEORN	
POLYGON DESCRIPTION	SYSTEM	G WETLAND G WETLAND G AGUATIC	SITE	G OPEN WATER G SHALLOW WATER G BEDROCA

STAND DESCRIPTION

	SLANU UESCRIFTICUS			
		5		SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 ± p) MICH GREATER THAN: > GREATER THAN: = ABOUT EQUAL TO)
Ľ	LATER	Ξ	5	
	CANOPY	2		Froy DOMM, DIMNU OWNO DYUN SPI
2 SUE	SUB-CANOPY	3		11
R	UNDERSTOREY	4	3	Cover far > Rham cat. Crat \$, Cornaer
4 GR	GRD. LAYER	9	r.	Colidazo cana > Gacs op >/ (CA
HT CODES:		11 62 4 2 1	2 = 104	1 ב-25 m 2 = 104H לביש 1 ביל ביל לא אין לא אין אין אין אין אין אין אין אין אין אי
CVR CODES		0= NUNE	1= 0%	0=MONE 1=0%+CVR 10= 2=*0*CVR 25+ 3-2%*C+R ** 4****
AND	STAND COMPOSITION:	N		BA

SIZE CLASS ANALYSIS:		Z	< 10 <	0	M < 10 0 10-24 N 25-50 N >50	2	25 - 50	2	50
STANDING SNAGS:		C	× 10	0	A <10 O 10-24 N 25-50 N	2	14-47	Z	02 4
DEADEALL /LOGS:		た	< 10	0	< 10 0 10-24 N 25-55 W	2	25 - 55	2	- 50
ABUNDANCE CODES:	N = NONE R = RARE O = OCCASIONAL	R = R	ARE O	= OCCA	SIONAL	A = ABI	A = ABUNDANI		
		5	-	F	1111 ACC 1141		147.0.81		ULD ULD
COMM. AGE	PIONEER X YOUNG	Ż	DNUD		MIN-MAR			T	GROWTH

SOIL ANALYSIS		
	DEPTH TO MOTTLES / GLEY 9 =	G#
	DEPTH OF ORGANICS:	(cm)
HOMOGENFOLIS / VARIABLE DEPTH TO BEDROCK:	DEPTH TO BEDROCK:	(cm)
COMMINITY CLASSIFICATION.	.NO	ELC CODE

2

COMMUNITY CLASS:		
COMMUNITY SERIES:		
ECOSITE:	1	
VEGETATION TYPE:	Grup Way was	CUT1-4
INCLUSION		
COMPLEX		

Notes

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COMPLEX	INCLUSION	VEGETATION TYPE:	ECOSITE:	COMMUNITY SERIES:	COMMUNITY CLASS:	COMMUNITY CLASS	HOMOGENEOUS / VAN	MOISTURE:	TEXTURE:	SOIL ANALYSIS:	COMM. AGE :	ABUNDANCE CODES: N	DEADFALL / LOGS:	SIZE CLASS ANALYSIS:	STAND COMPOSITION:	HT CODES: 1=>25 m CVR CODES D= NONE	4 GRD. LAYER 5-7	3 UNDERSTOREY 4	2 SUB-CANOPY 3	1 CANOPY 2	STAND DESCRIPTION: LAYER HT C		G OPEN WATER G SHALLOW WATER G BEDROCK	SITE G CAR	 SYSTEM SUB	POLYGON DESCRIPTION	CLASSIFICATION UTMZ:	
		Oak S	Ē	S	S	CLASSIFICATION:	/ VARIABLE DEPTH TO BEDROCK:				YOUNG	R=RARE 0=	10 10 00	Pr <10 0 10-		1= 0% < CVR s 10% 2= 10 < CVR 25%	exx > n	4		· DUEPALN >	VR	per inter	ROCKLAND BEACH / BAR SAND DUNE BLUFF	TALUS CREVICE / CAVE ALVAR	 HISTORY			

SIRE: Interview SURVEY Interview Interview
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LECEND CLASS	SOL SURVEY MAP	MOISTURE REGIME	PORE SIZE D SC #2	PORE SIZE D'SC #1	DEPTH OF ORGANICS	CARBONATES	WATER TABLE	BEDROCK	GLEY	MOITLES	DEPTH TO / OF	SURFACE ROCKINESS	SURFACE STONGAESS	EFFECTIVE TEXTURE	COURSE FRACMENTS	C TETTURE	COURSE FR	8 TEXTURE	COURSE FR	A TEXTURE		TEXTURE # HORIZON	F	U N	PIA PP Or		SOLS ONTARIO		<u>n</u>
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ī												1.11.11					- St -	10				~			*	Slope	SURVEYOR	POLYGON:	SITE:
											-	2.	日本	-				141 1				-	- -		ype Class	4	(\$):		
													A CAR		1							c	<u>ا</u> اد		N		L		
i I									•				(10)									+			EASTING	1.			
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Indidate site if snag/cavity tree density ≥ 10 snags/ha of trees ≥ 25 cm dbh al sites include animal burrows, rock crevices & other areas below the frost ing in early spring & late fall may suggest a hibernaculum is nearby. or Specialized Habitats for Wildlife es - Includes all S1 – S3. Also consider argeted vegetation communities Lakes Conservation Blueprint, or IDed as rare in the Oak Ridges Moraine. versity of species – Relatively large & mature forests. Those including poporion of mature trees, uneven-aged stands, numerous tree cavities, a ater, and with little or no management, are more significant. t stands – Woodlands ≥ 0.5 ha in size and older than 90 years of age. ant mast – Relatively large forests with numerous nut producing trees (e. eas with large patches of beny-producing strubs. Ill clift, talus, crevice or cave communities. Note associated species. = diffuse discharge: Springs = point discharge. Note size, abundance, habitat. rare species, and surrounding vegetation communities. t (woodland) – Are typically shallow, unpolluted, contain emergent or su e shoreline structures for calling. Can be permanent or temporary in nature in exposed sands & gravels < 100 m from a wetland (e.g. pond. lake or in species. right land, slightly darker in appearance. Turtles typically nest during the significant to the municipality. rom barrows/chimneys in meadows and shallow marshes. nreferine <tr< th=""><th>ows/windbreaks, shorelines, wetland burrers, stream a river ridors etc. Note wildlife signs (e.g. tracks, observations, scat. etc.)</th><th></th></tr<>	ows/windbreaks, shorelines, wetland burrers, stream a river ridors etc. Note wildlife signs (e.g. tracks, observations, scat. etc.)	
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1					000 1 # 5		2 TABLELAND		GRAS		
			STREAM MARSH	G FLOATING-LVD, G GRAMINOID		COLUMN	A TERRACE		S AND	G AQUATIC	OY
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	COMPLEX F009-2	INCLUSION	VEGETATION TYPE:	ECOSITE:	COMMUNITY SERIES:	COMMUNITY CLASS:	COMMUNITY CLASSIFICATION: ELC CODE	(cm)	(cm)	SOIL ANALYSIS: TEXTURE: DEPTH TO MOTTLES / GLEY 9 = G= Seq			N=NONE R=RARE 0=OCCASIONAL A=ABUNDANT	//3 < 10 /2 10 - 24 /○ 25 - 50 /Q >	SIZE CLASS ANALYSIS: WH < 10 A 10-24 A 25-50 0 > 50	BA:	CVR CODES 0= NONE 1= 0% < CVR 10% 2= 10 < CVR 25% 3= 25 < CVR 60% 4= CVR > 60%	1=>25m 2=10 <ht+25m 3="2<HT+10m" 4="1<H</th"><th></th><th>UNDERSTOREY 4</th><th>SUB-CANOPY Z 4</th><th>4 1/2 Y</th><th>LAYER HT CVR SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp)</th><th>STAND DESCRIPTION:</th><th>REED</th><th>G OPEN</th><th>G ALVAR G ALVAR G ROCKLAND</th><th>G CARB. BEDRK. G TALLE G CARB. BEDRK. G TALLE G CARB. BEDRK.</th><th>C LICHEN</th><th>PARENT MIN. G VALLEY SLOPE</th><th>NAL GORGANIC GLACUSTRINE GORATURAL GPLANKTON</th><th>SYSTEM SUBSTRATE TOPOGRAPHIC HISTORY PLANT FORM COMMUNITY</th><th>DESCRIPTION</th><th>CLASSIFICATION UTMZ: UTME: UTMN:</th><th></th><th>MOUNT IN THE POLYGON:</th></ht+25m>		UNDERSTOREY 4	SUB-CANOPY Z 4	4 1/2 Y	LAYER HT CVR SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp)	STAND DESCRIPTION:	REED	G OPEN	G ALVAR G ALVAR G ROCKLAND	G CARB. BEDRK. G TALLE G CARB. BEDRK. G TALLE G CARB. BEDRK.	C LICHEN	PARENT MIN. G VALLEY SLOPE	NAL GORGANIC GLACUSTRINE GORATURAL GPLANKTON	SYSTEM SUBSTRATE TOPOGRAPHIC HISTORY PLANT FORM COMMUNITY	DESCRIPTION	CLASSIFICATION UTMZ: UTME: UTMN:		MOUNT IN THE POLYGON:
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SITE		G TALUS G CREVICE / CAVE	COVER		G BARREN G MEADOW								
G OPEN WATER G SHALLOW WATER G BEDROCK	I	ROCKLAND BEACH / BAR SAND DUNE BLUFF	G OPEN		G THICKET G SAVANNAH G WOODLAND G FOREST								
STAND DESCRIPTION	RIPTION												
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4 GRD, LAYER			> A	V	10 XRADI	BASAL AREA (BA							00
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SIZE CLASS ANALYSIS:	ALYSIS:		10-24		N > 50						E.		
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	PIONEER	YOUNG	MID-AGE	MATURE	OLD GROWTH	<u>, , , , , , , , , , , , , , , , , , , </u>							
TEXTURE:		DEPTH TO MOTTLES / GLEY	TLES / GLEY	9	G=	TT							
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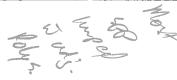
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	CULTURAL C PLANKTON LAKE	
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PRISM FACTOR	Ĩ			1				-	+	
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														 				1 2 3 4	LAYER	2 = SUB-CANOPY 3 = UND R = RARE 0 = OCCASIONA
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															Wer-sp	SNLSP	PHRAMET		SPECIES CODE	4 = GROUND (GRD.) LAYER
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P/A P Dr Type Class % N pos Niength E pos Elength Z EAST NORTH	ABUNDANCE CODES: R = I	WARE D = OCCASON	L A = ABUNDANT D = DOMIN
	SPECIES CODE	LAVER	COLL. SPECIES CODE
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			707	FLOATING-LVD	RIVER
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				PHYTE	I FEN
				CONIFEROUS	BARREN
SITE	CARB, BEDRK		R		PRAIRIE
OPEN WATER SHALLOW WATER		BEACH / BAR			I THICKET
BEDROCK		SAND DUNE SHRUB BLUFF TREED			WOODLAND FOREST PLANTATION
STAND DESCH	RIPTION:				
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1 CANOPY					
2 SUB-CANOPY					
3 UNDERSTOREY	_				
4 GRD. LAYER					
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ABUNDANCE CODES:	z	NONE R = RARE O = OCCASIONAL	A =	ABUNDANT	
COMM. AGE	PIO	PIONEER YOUNG MID	MID-AGE	MATURE	GROWTH
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Notes:	COMPLEX	INCLUSION	VEGETATION TYPE:	ECOSITE:	COMMUNITY SERIES:	COMMUNITY CLASS:	COMMUNITY CLASSIFICATION: ELC CODE	DEPTH OF ORGANICS:	TEXTURE: DEPTH TO MOTTLES / GLEY 1g = 1G=		N = NONE R = RARE O = OCCASIONAL A = ABUNDANT	STANDING SNAGS: < 10	1 01 oc-c2 1 4/ 42-01 1 1 01 2 1-21 3cls	BA:	ONE 1=0% < CVR 10% 2=10 < CVR 25% 3=25 < CVR 280% 4= CVR > 80%	4 GRD LAVER 1: Y Y See Palgon S	SUB-CANOPY	LANDET 201 H CAUGUAT SOUS ST & JUXXENN	LATER II CVR (>> MUCH GREATER THAN; > GREATER THAN; = ABUUT EQUAL TO	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp)	STAND DESCRIPTION:	G TREED	G SURFICIAL DEP. G SAVAD DUNIE G SHRUB G WOODLAND		G CARB, BEDRK, G TALLY G CONFEROUS	ACIDIC BEDRK. G TABLELAND BASIC AEDRK G ROLL UPLAND G BRYOPHYTE	PARENT MIN, G TERRACE G GRAMINOID	G MINERAL SOIL G RIVERINE G CULTURAL G FI GATINGLYD	C FEATURE	-	POLYGON DESCRIPTION	CLASSIFICATION UTM2: UTME: UTMN:	_	SILE POLYGON:			
Page of										w he										Wr 134			ULMAMBA O	INXIENN OC	Calefulos 6	RUMALU O	,	> 1 2 3 4	LAYER COL. SPECIES CODE LAYER	CASHONAL A = ABUNDANT D = DOMINANT	1=0	LIST SURVEYORISI:	PLANT DATE: DATE:		Gwi - U	For Lande & #B	

	EI C	THUN VERIMA	WHYENS P	POLYGON: 32			ELC	BOLVGON				
		VEYOR(S)					PLANT	DATE				
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			UTW			-4	2					
	POLYGON DESC	RIPTION					~	UB-CANOPY 3 = UNDERSTORE	Y 4 = GROUND (GRD) LAYER	RD) LAYER		
	1		HISTORY		COMMUNITY			LAVER	BUNDANT D = DOM	INANT	LAYER	CDE
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Notes

Appendix E: Salamander DNA Testing Results

Trap Pond Trap Date UTM ID Sample No. 2 1 08-Apr-15 LLU 1 654300.00 m E 4769302.00 m N 1 5 1 13-Apr-15 654300.00 m E 4769302.00 m N LL 1 5 1 10-Apr-15 654300.00 m E 4769302.00 m N LLJ 2 1 5 10-Apr-15 LIJ 654300.00 m E 4769302.00 m N 5 3 LLJ 1 10-Apr-15 654300.00 m E 4769302.00 m N 5 4 LLLJ 1 10-Apr-15 654300.00 m E 4769302.00 m N 1 5 5 10-Apr-15 LLJ 654300.00 m E 4769302.00 m N 5 6 1 10-Apr-15 654300.00 m E 4769302.00 m N LL 5 7 1 10-Apr-15 LLJ 654300.00 m E 4769302.00 m N 5 8 1 10-Apr-15 654300.00 m E 4769302.00 m N LLJ 5 9 1 10-Apr-15 654300.00 m E 4769302.00 m N LL 1 5 10 10-Apr-15 LLJ 654300.00 m E 4769302.00 m N 5 1 11 10-Apr-15 LLJ 654300.00 m E 4769302.00 m N 5 12 1 10-Apr-15 LL 654300.00 m E 4769302.00 m N 1 5 1 08-Apr-15 LLLJ 654300.00 m E 4769302.00 m N 1 5 2 LLU 08-Apr-15 654300.00 m E 4769302.00 m N 2 1 1 10-Apr-15 LIJ 654409.00 m E 4769296.00 m N 2 4 1 LL 10-Apr-15 654409.00 m E 4769296.00 m N 2 4 2 10-Apr-15 654409.00 m E 4769296.00 m N LL 2 1 4 LLJ 08-Apr-15 654409.00 m E 4769296.00 m N 3 1 1 10-Apr-15 654350.00 m E 4769391.00 m N LL 3 1 2 10-Apr-15 ? 654350.00 m E 4769391.00 m N 3 1 1 08-Apr-15 LIJ 654350.00 m E 4769391.00 m N 3 2 1 10-Apr-15 654350.00 m E 4769391.00 m N LL 2 3 2 10-Apr-15 654350.00 m E 4769391.00 m N LLJ 3 2 1 08-Apr-15 LL 654350.00 m E 4769391.00 m N 3 2 2 08-Apr-15 LLJ 654350.00 m E 4769391.00 m N 3 4 1 654350.00 m E 4769391.00 m N LL 13-Apr-15 3 2 4 13-Apr-15 654350.00 m E 4769391.00 m N LL 1 1 LL 4 13-Apr-15 654472.00 m E 4769409.00 m N 4 1 1 LLJ 08-Apr-15 654472.00 m E 4769409.00 m N 2 4 1 654472.00 m E 4769409.00 m N LL 10-Apr-15 4 3 1 10-Apr-15 654472.00 m E 4769409.00 m N LLJ 6 1 1 08-Apr-15 LLJ 654694.00 m E 4769529.00 m N 6 2 1 13-Apr-15 654694.00 m E 4769529.00 m N LLJ 6 2 1 10-Apr-15 LLLJ 654694.00 m E 4769529.00 m N 6 2 2 10-Apr-15 LL 654694.00 m E 4769529.00 m N

Appendix E: Results from DNA testing of Salamander tail tips collected from the Thundering Waters property (spring 2015):

6	3	1	10-Apr-15	654694.00 m E 4769529.00 m N	LLJ
6	5	1	13-Apr-15	654694.00 m E 4769529.00 m N	LIJ
7	1	1	10-Apr-15	654267.00 m E 4768964.00 m N	LL
7	1	2	10-Apr-15	654267.00 m E 4768964.00 m N	LL
7	2	1	10-Apr-15	654267.00 m E 4768964.00 m N	LL
7	2	2	10-Apr-15	654267.00 m E 4768964.00 m N	LL
7	3	1	10-Apr-15	654267.00 m E 4768964.00 m N	LIJ
7	4	1	08-Apr-15	654267.00 m E 4768964.00 m N	LL
7	5	1	08-Apr-15	654267.00 m E 4768964.00 m N	LL
8	1	1	10-Apr-15	654434.00 m E 4769119.00 m N	LIJ
8	1	2	10-Apr-15	654434.00 m E 4769119.00 m N	LL
8	4	1	10-Apr-15	654434.00 m E 4769119.00 m N	LL
8	4	2	10-Apr-15	654434.00 m E 4769119.00 m N	LL
8	4	3	10-Apr-15	654434.00 m E 4769119.00 m N	LL
8	4	4	10-Apr-15	654434.00 m E 4769119.00 m N	LL
8	4	5	10-Apr-15	654434.00 m E 4769119.00 m N	LL
8	4	6	10-Apr-15	654434.00 m E 4769119.00 m N	LL
8	4	7	10-Apr-15	654434.00 m E 4769119.00 m N	LL
8	4	8	10-Apr-15	654434.00 m E 4769119.00 m N	LL
8	4	9	10-Apr-15	654434.00 m E 4769119.00 m N	LL
8	4	10	10-Apr-15	654434.00 m E 4769119.00 m N	LL
8	4	11	10-Apr-15	654434.00 m E 4769119.00 m N	LIJ
8	4	12	10-Apr-15	654434.00 m E 4769119.00 m N	LL
8	4	13	10-Apr-15	654434.00 m E 4769119.00 m N	LL
8	4	14	10-Apr-15	654434.00 m E 4769119.00 m N	LL
8	4	15	10-Apr-15	654434.00 m E 4769119.00 m N	LL
8	4	16	10-Apr-15	654434.00 m E 4769119.00 m N	LL
8	4	17	10-Apr-15	654434.00 m E 4769119.00 m N	LL

Appendix F: Nocturnal Amphibian Call Station Survey Results

				Frog		eding Evidence Co	odes ³	
Station ¹	Date (2015)	Proximity	Spring Peeper Pseudacris crucifer	American Toad Anaxyrus americanus	Western Chorus Frog Pseudacris triseriata	Northern Leopard Frog Lithobates pipiens	Gray Treefrog Hyla versicolor	Wood Frog Lithobates sylvaticus
	A	< 100 m	L2(4)					
	April 19	> 100 m	L2(5)	L2(3), L2(5)	L2(8)			
1	May 20	< 100 m						
(180°)	May 28	> 100 m						
		< 100 m					L1(1)	
	June 24	> 100 m		L1(1)				
	Amril 10	< 100 m	L2(3)		L2(3), L2(8)			
	April 19	> 100 m						
2	May 20	< 100 m						
(180°)	May 28	> 100 m	L1(1)					
	L	< 100 m		L1(1)			L1(1)	
	June 24	> 100 m						
	Amerilan	< 100 m			L2(3)			
	April 19	> 100 m	L2(3)					
3		< 100 m						
(90°)	May 28	> 100 m	L1(1)				L1(1)	
		< 100 m						
	June 24	> 100 m						
		< 100 m						
	April 19	> 100 m	Distant					
4	-	< 100 m						
(100°)	May 28	> 100 m	L1(1)				L1(3), L1(1)	
		< 100 m						
	June 24	> 100 m					L1(1)	
		< 100 m	L2(5)		L2(3)			
	April 19	> 100 m						
5		< 100 m					L1(2)	
(100°)	May 28	> 100 m					(_)	
		< 100 m						
	June 24	> 100 m						
		< 100 m	L2(3), L1(1)	L2(7)	L1(1)	L1(1)		
	April 19	> 100 m	L2(8) offsite		L1(2)			
6	<u> </u>	< 100 m			(_/		L1(1)	
(50°)	May 28	> 100 m					(.)	
	<u> </u>	< 100 m						
	June 24	> 100 m						
		< 100 m	L2(4)	L2(5)	L2(3)			
	April 19	> 100 m			LL(3)			
7		< 100 m						
7 (30°)	May 28	> 100 m					L1(1)	
(- - /		< 100 m					E ((1)	
	June 24	> 100 m						
		< 100 m	L2(3), L2(3)		L1(1)			
8	April 19	< 100 m	L2(3), L2(3)	1 2(5)/1 2	L1(1)			
(20°)	May 20		1/1)	L2(5)/L3			11(2)	
	May 28	< 100 m	L1(1)				L1(2)	

Appendix F: Nocturnal Amphibian Call Station Survey Results

Station ¹	Date (2015)	Proximity	Frog Species ² and Breeding Evidence Codes ³					
			Spring Peeper Pseudacris crucifer	American Toad Anaxyrus americanus	Western Chorus Frog Pseudacris triseriata	Northern Leopard Frog Lithobates pipiens	Gray Treefrog Hyla versicolor	Wood Frog Lithobates sylvaticus
		> 100 m						
	June 24	< 100 m						
		> 100 m						
9 (0°)	April 19	< 100 m	L3		L3, L3			
		> 100 m						
	May 28	< 100 m					L1(2), L2(3)	
		> 100 m						L1(1)
	June 24	< 100 m					L1(1)	
		> 100 m						
10 (0°)	April 19	< 100 m		L3(2)	L2(3), L2(3)			
		> 100 m						
	May 28	< 100 m					L1(1)	
		> 100 m					L1(1)	
	June 24	< 100 m					L1(1)	
		> 100 m					L1(2)	
11 (130°)	May 28	< 100 m					L1(1), L2(2)	
		> 100 m					L2(3)	
	June 24	< 100 m					L1(1), L1(1), L2(2)	
		> 100 m					L2(2)	
12 (110°)	May 28	< 100 m					L2(2), L1(2), L1(1)	
		> 100 m					L3	
	June 24	< 100 m					L1(1), L1(1), L2(2), L1(1)	
		> 100 m						
13 (185°)	May 28	< 100 m						
		> 100 m						
	June 24	< 100 m					L1(2), L1(1)	
		> 100 m					L1(1)	

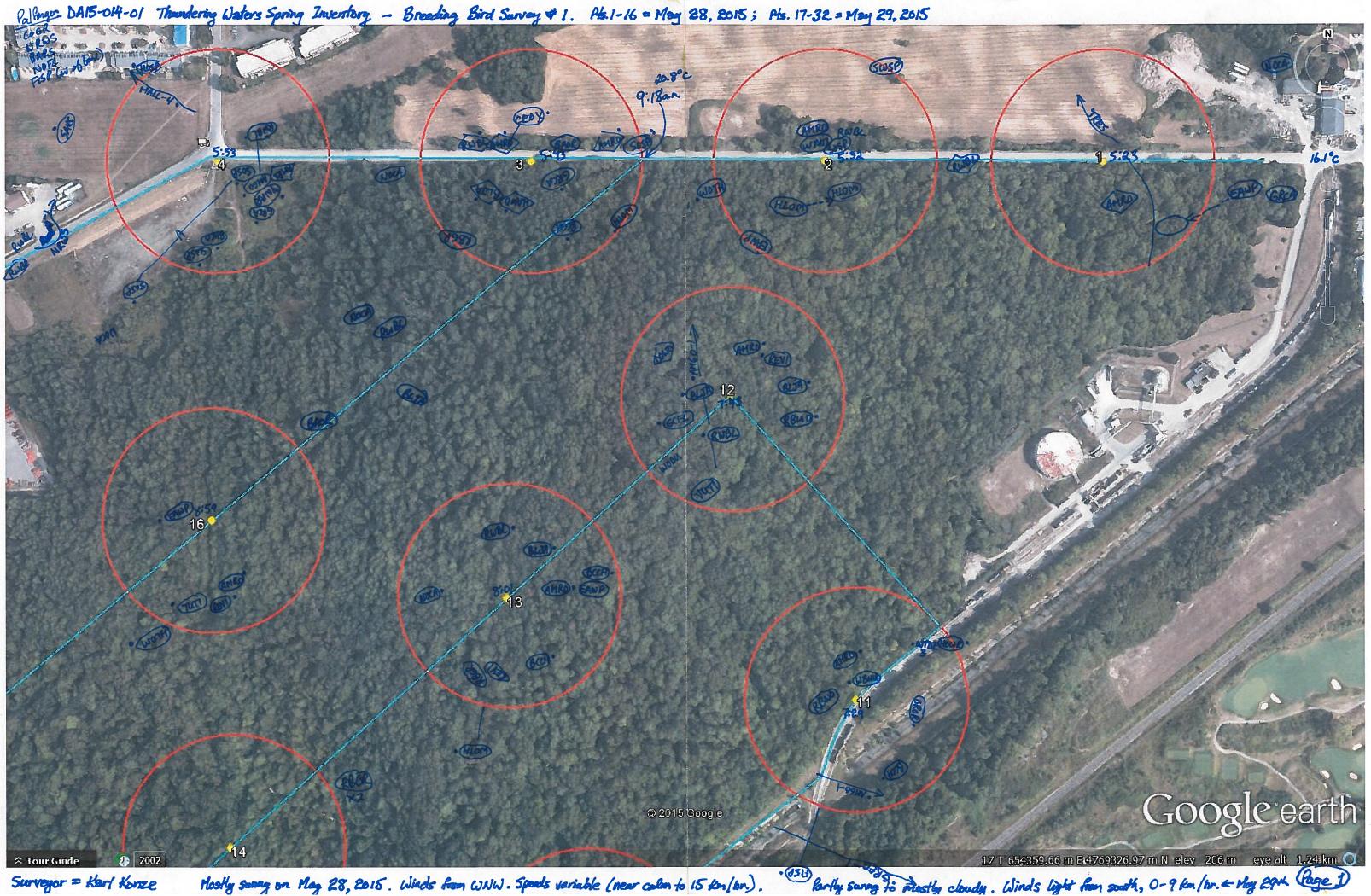
Legend

- 1. Point count station locations are depicted on Figure 3. Numbers in the brackets indicate survey direction in degrees.
- 2. Nomenclature, common names and scientific names follow Scientific and Standard English Names of Amphibians and Reptiles of North America North of Mexico (Crother *et al.*, (2008)).
- 3. Breeding Evidence Codes based on the Marsh Monitoring Program (BSC, 2009).
 - L1 = Level 1 = Individuals can be counted; calls not simultaneous;
 - L2 = Level 2 = Calls distinguishable; some calls simultaneous;
 - L3 = Level 3 = Full chorus; calls continuous and overlapping. A more accurate abundance estimate is not possible;
 - () = numbers in brackets following L1 or L2 refer to estimates of individuals present

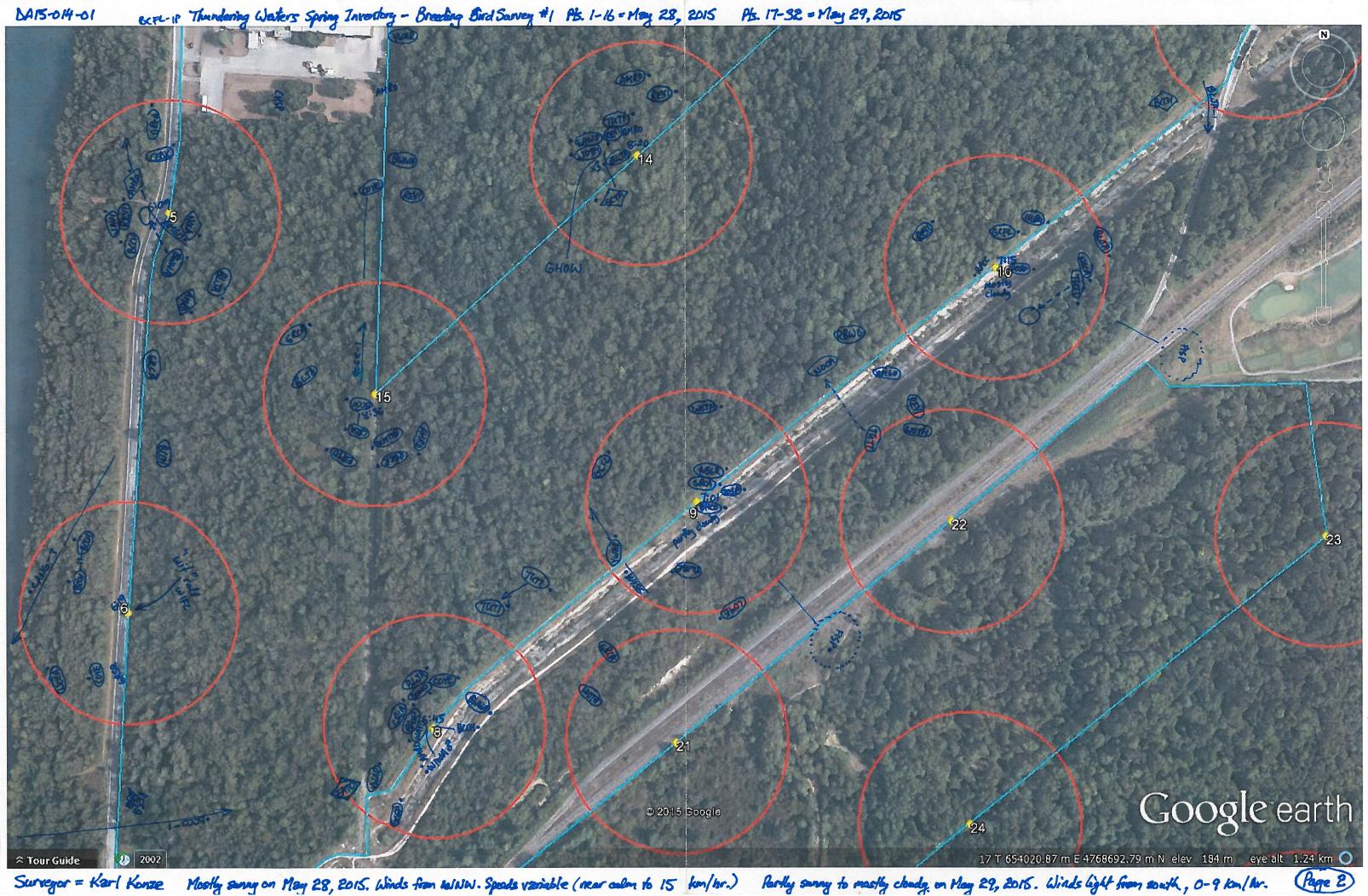
References

BSC (Bird Studies Canada). 2009. Marsh Monitoring Program Participant's Handbook for Surveying Amphibians. 2009 Edition. 13 pages. Published by Bird Studies Canada in cooperation with Environment Canada and the U.S. Environmental Protection Agency. February 2009. Crother, B. I. (ed.). 2008. Scientific and Standard English Names of Amphibians and Reptiles of North America North of Mexico, pp. 1–84. SSAR Herpetological Circular 37.

Appendix G: Breeding Bird Survey Data



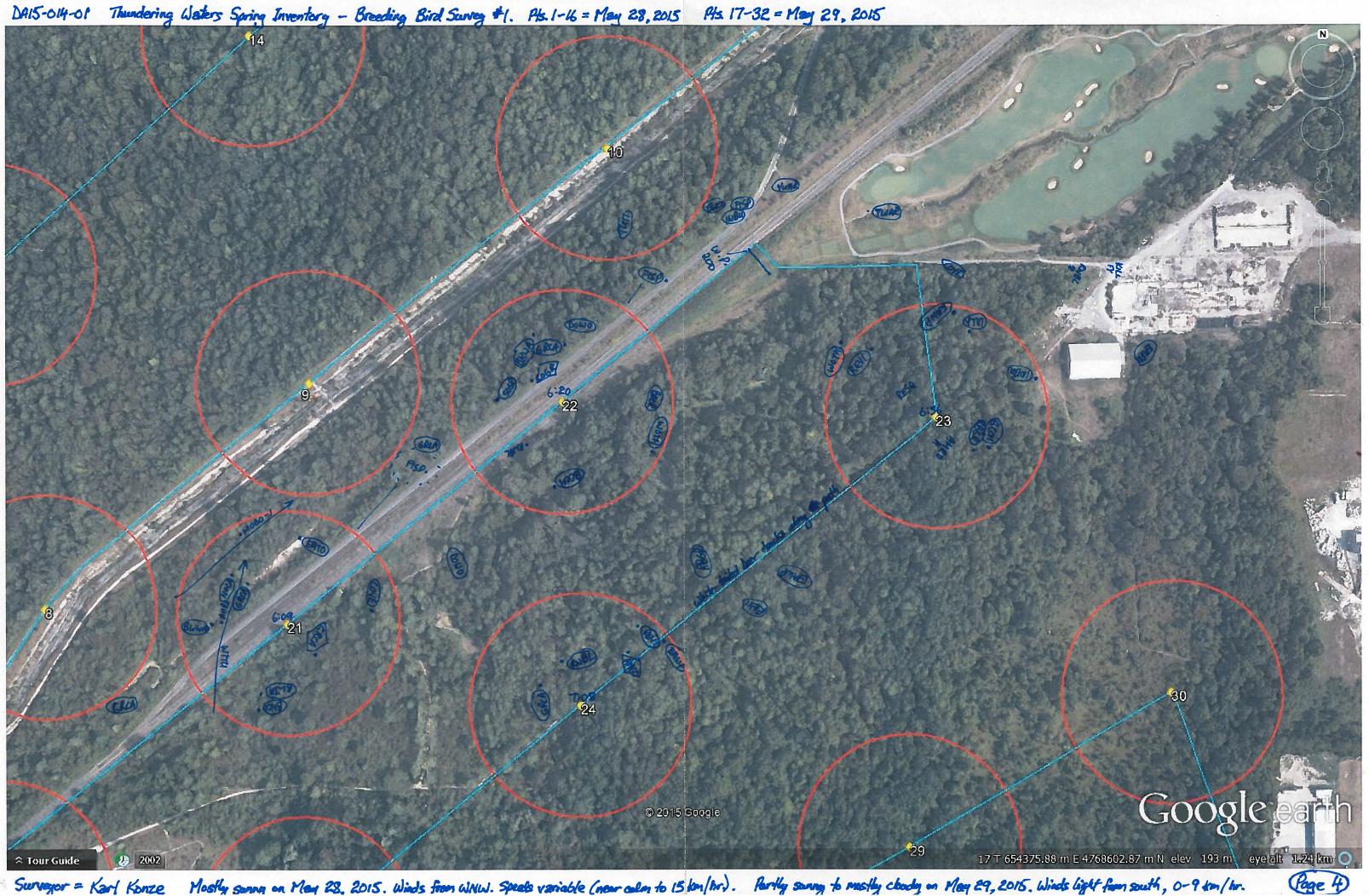
Mostly sunny on May 28, 2015. Winds from WNW. Speeds variable (near colon to 15 ton/br.).





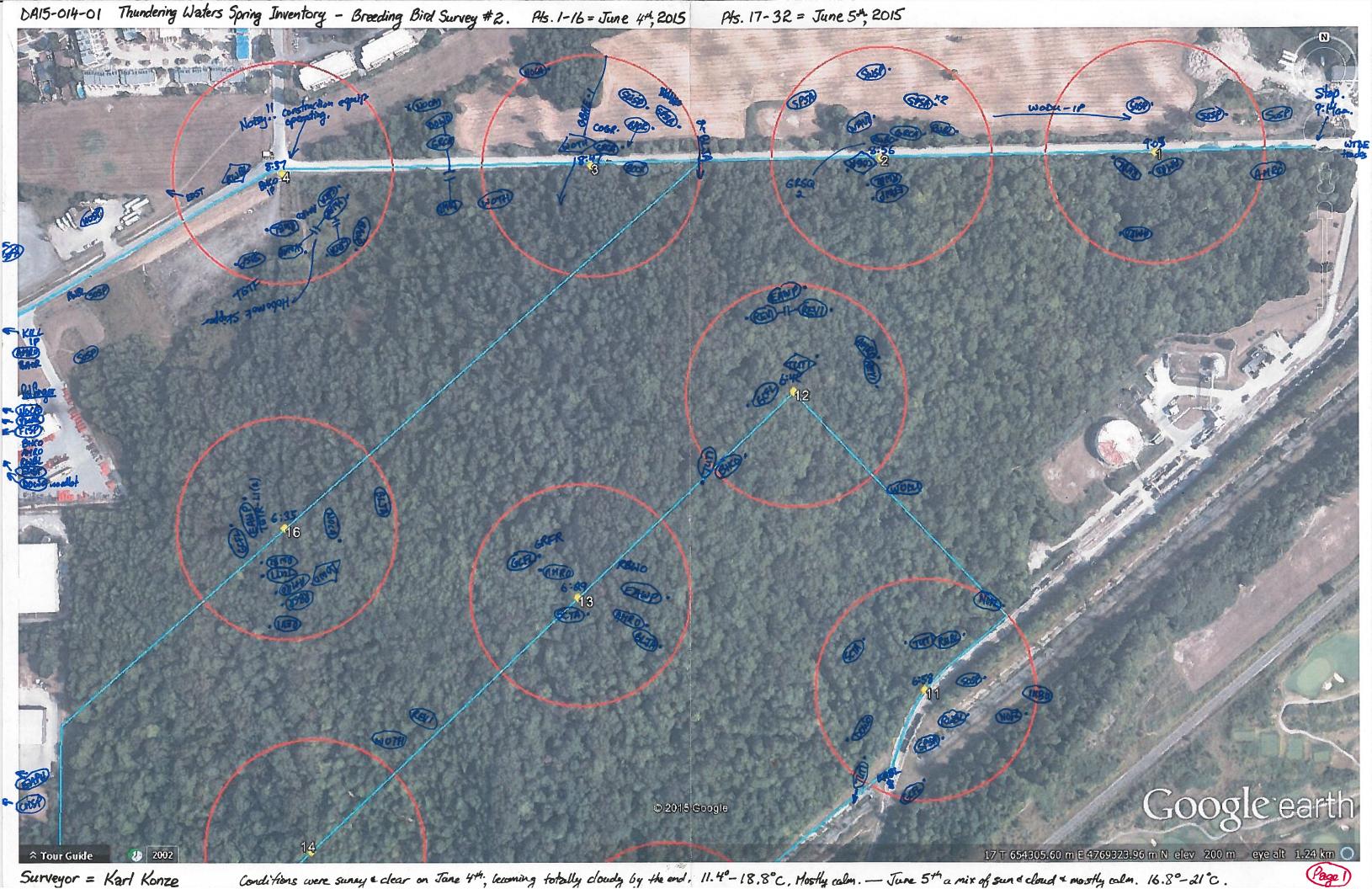
Google earth

17 T 654031.16 m E 4767940.98 m N elev 184 m eye alt 1.24 km 🔿



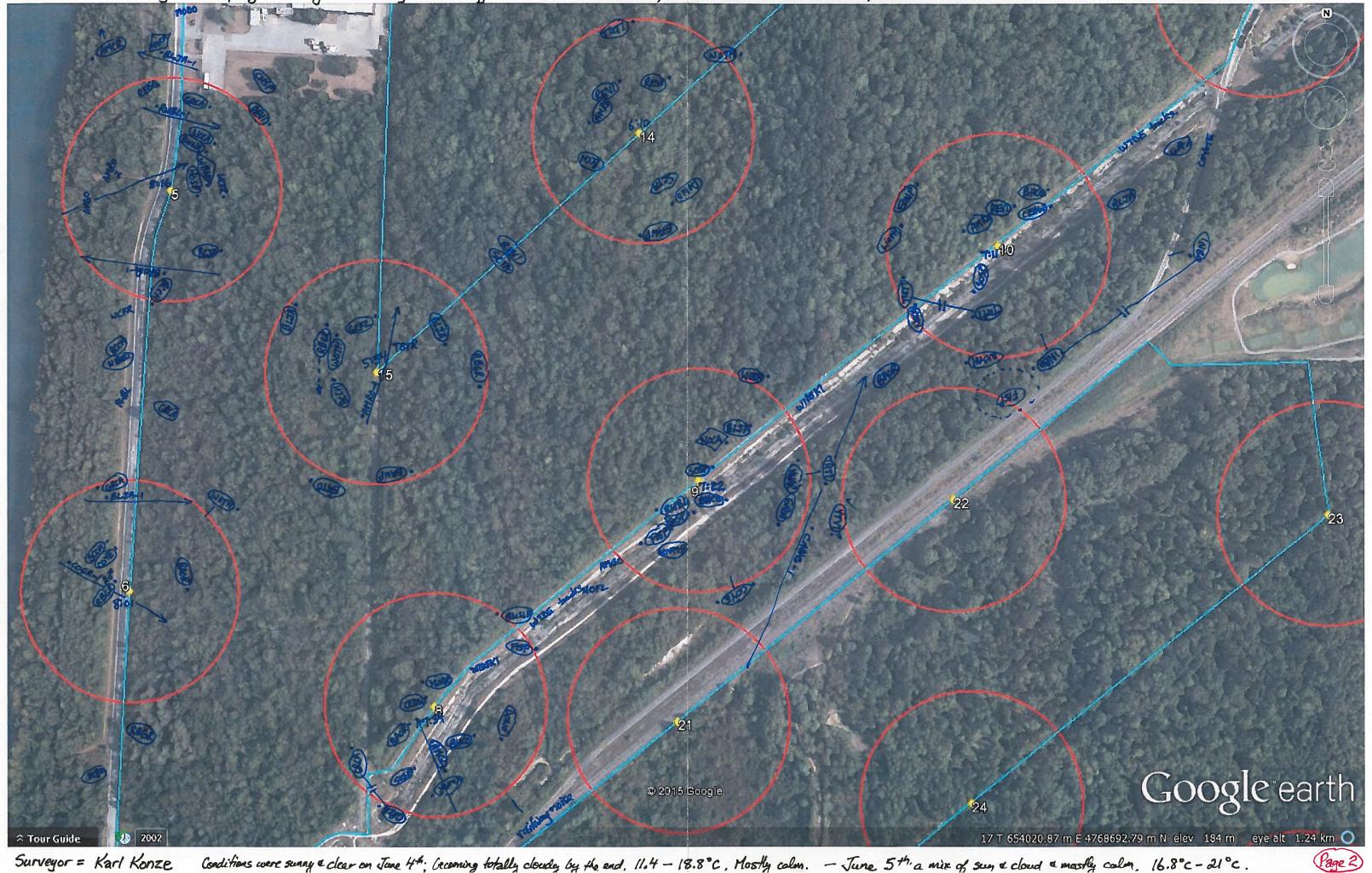
2415-014-01 Thundering Waters Spring Inventory - Breeding Bird Survey #1. As. 1-16 = May 28,2015 As. 17-32 = May 29,2015



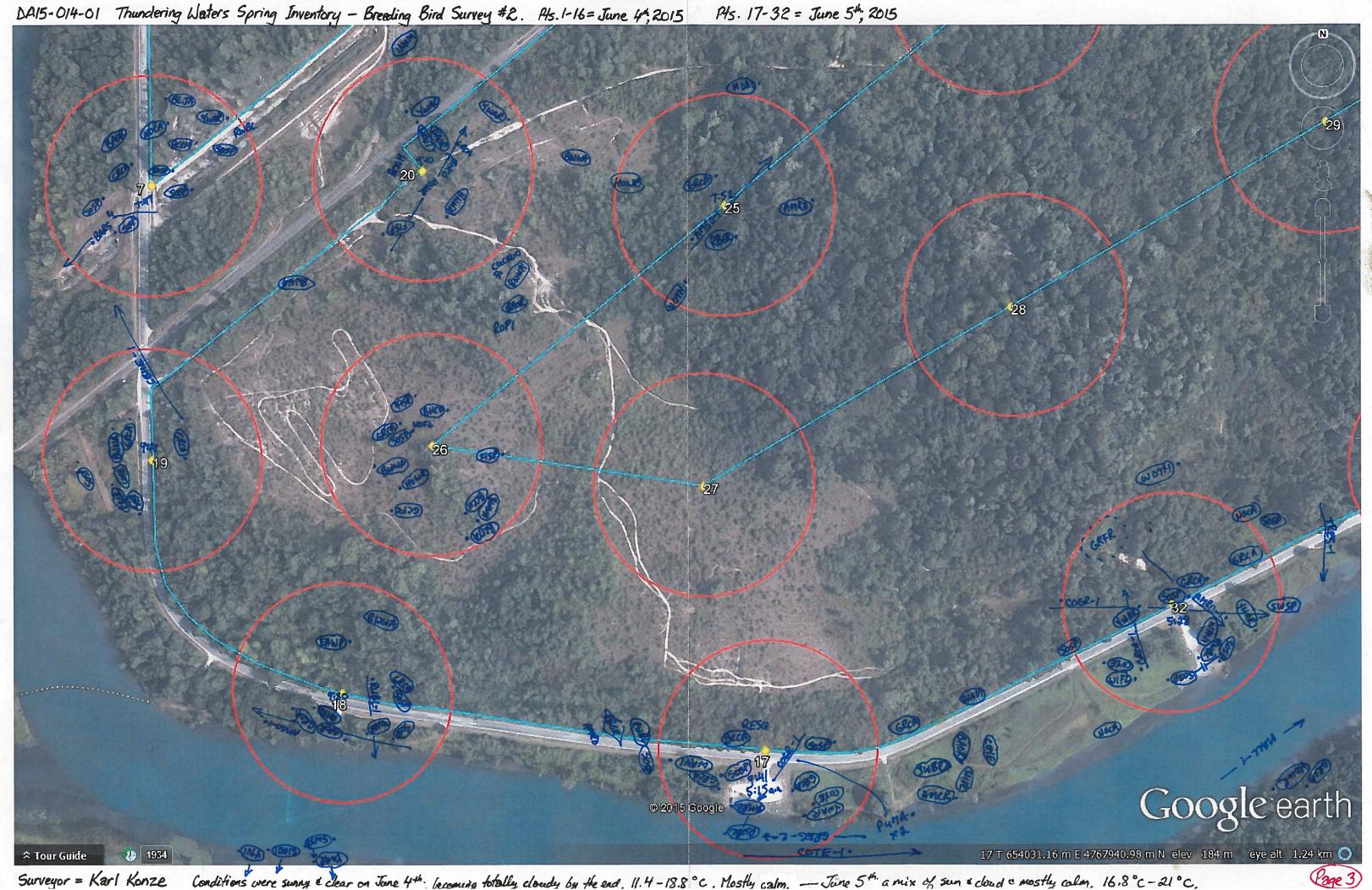


Surveyor = Karl Konze

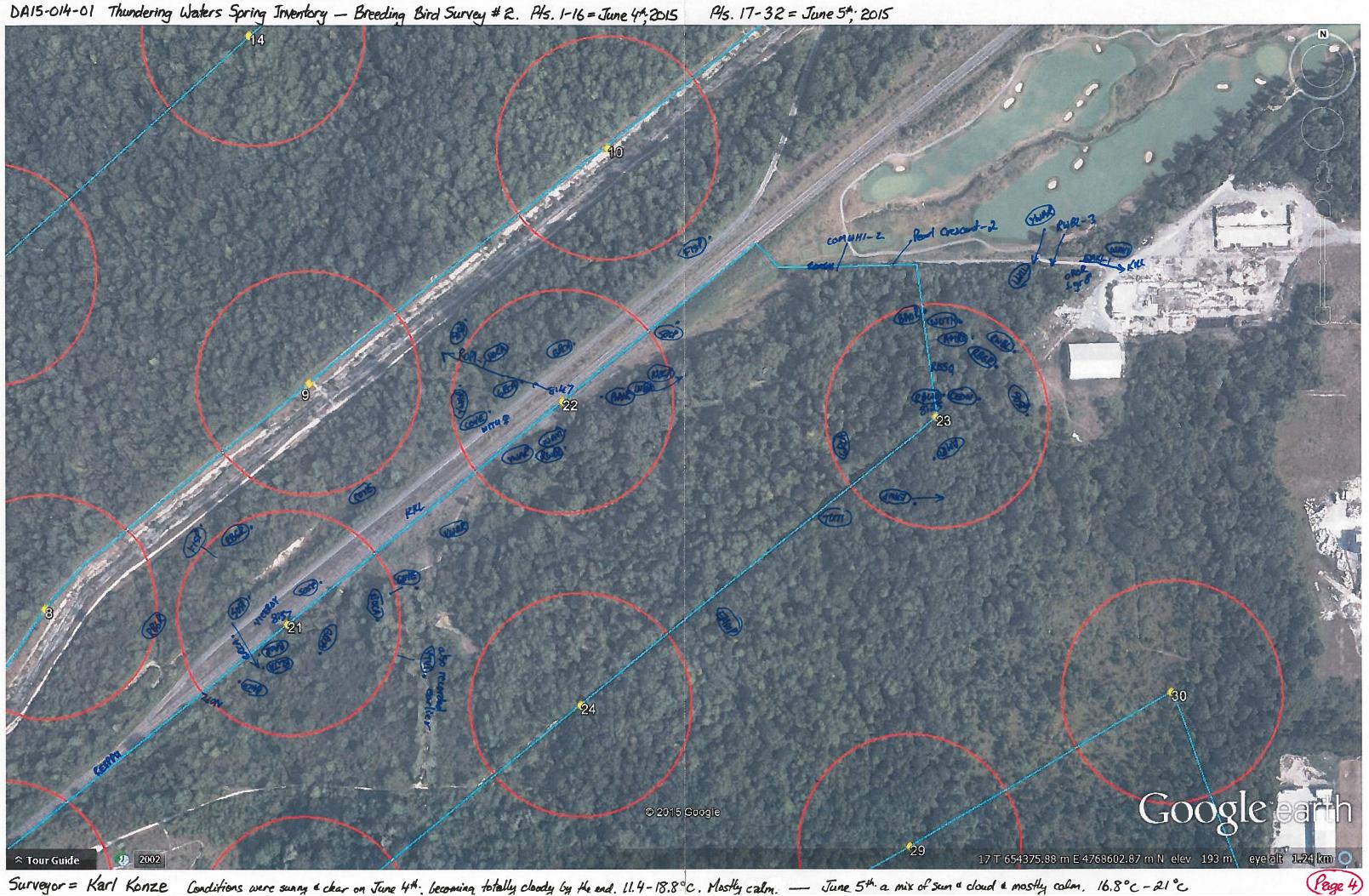
DA15-014-01 Thundering Waters Spring Inventory - Breeding Bird Survey #2. Pts. 1-16 = June 4*,2015 Pts. 17-32 = June 5th; 2015

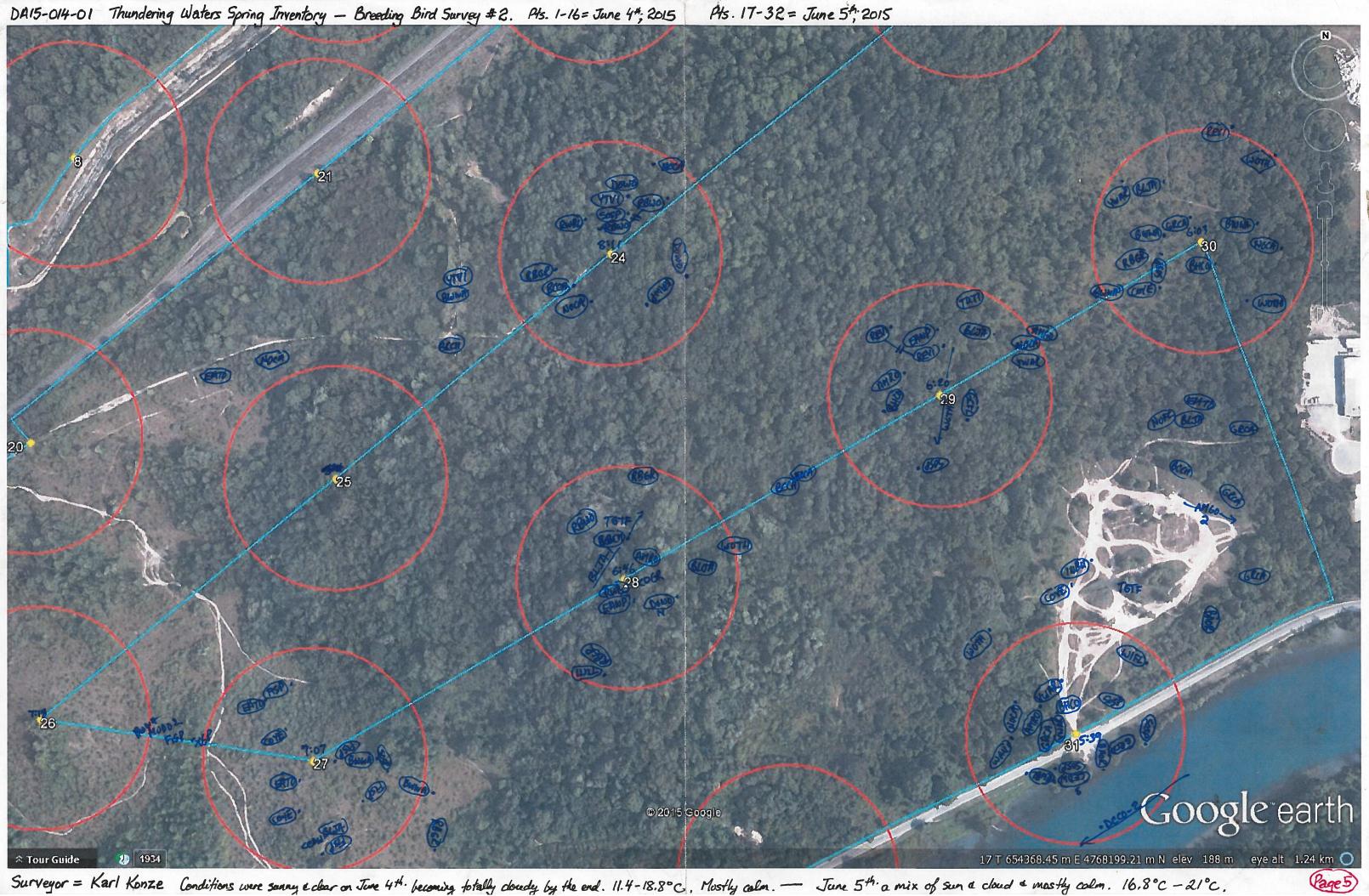


Surveyor = Karl Konze Conditions were surry & clear on June 4th; becoming totally cloudy by the end, 11.4 - 18.8°C, Mostly calm. - June 5th, a mix of sun & cloud & mostly calm. 16.8°C - 21°C.



Surveyor = Karl Konze





Appendix H: Photo Inventory of Watercourse Surveys

Photograph 1. April 11, 2015. Shoreline view of Welland River. While there were shallow wet areas inland, there was no connection to the river.



Photograph 2. April 11, 2015. Shoreline view of Welland River.



Photograph 3. April 11, 2015. Watercourse 1, approximately midway between source and the Welland River.



Photograph 4. April 21, 2015. Emergent vegetation Immediately upstream of Dorchester Road culvert in Watercourse 1, near the Welland River.



Photograph 5. October 6, 2015. Mouth of Watercourse 1 showing emergent and submergent rooted aquatic vegetation. Welland River in background.



Photograph 6. April 12, 2015. Downstream view in the upstream end of Watercourse 2 within the subject property.



Photograph 7. April 12, 2015. Meandering clay/mud channel of Watercourse 2, approximately 592 m upstream from the Welland River.



Photograph 8. April 21, 2015. Watercourse 2 with coarse material mixed into the clay/mud substrate, approximately 113 m from the Welland River.



Photograph 9. April 12, 2015. Structure of Watercourse 3.



Photograph 10. October 6, 2015. Collapsed rock-filled gabions in sloped section of Watercourse 3, approximately 30 m upstream from mouth.



Appendix I: Bat Roost Habitat Survey Results

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Sample Station Number	Polygon	Snags below 25cm DBH	Snags 25cm to 50cm DBH	Snags greater than 50cm DBH	Total >25cm	Plot Area (ha)	Snags/ha	Polygon
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	1	0	1	0	1	0.05	20	1
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2	3	0	1	0	1	0.05	20	3
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	3	1	0	2	0	2	0.05	40	1
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	4	1	0	1	0	1	0.05	20	1
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5	6	0	2	0	2	0.05	40	6
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	6	6	0	1	0	1	0.05	20	6
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	7	6	0	2	0	2	0.05	40	6
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	8	6	0	0	0	0	0.05	0	6
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	10	6	0	0	0	0	0.05	0	6
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	11	6	0	0	0	0	0.05	0	6
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	12	12	0	2	0	2	0.05	40	12
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	13	12	0	0	0	0	0.05	0	12
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	14	12	0	1	0	1	0.05	20	12
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	15	12	0	0	0	0	0.05	0	12
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	16	1	0	1	0	1	0.05	20	1
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	17	17	5	2	1	3	0.05	60	17
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	18	13	0		0		0.05	0	13
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	19	13	2	2	0	2	0.05	40	13
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	20	13	1	1	0	1	0.05	20	13
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	21	12	4	0	0	0	0.05	0	12
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	22	12	0	1	0	1	0.05	20	12
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	23	12	1	0	0	0	0.05	0	12
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		12	2		0	0	0.05	0	12
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	25	29	1	1	0	1	0.05	20	29
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	26	29	3	1	0	1	0.05	20	29
293030000.05030301910110.052019311920000.05019321810000.050183318140000.05018341822020.054018	27	29	8	1	0	1	0.05	20	29
301910110.052019311920000.05019321810000.050183318140000.05018341822020.054018	28	30	1	0	0	0	0.05	0	30
311920000.05019321810000.050183318140000.05018341822020.054018	29	30	3	0	0		0.05	0	30
321810000.050183318140000.05018341822020.054018	30	19	1	0	1	1	0.05	20	19
33 18 14 0 0 0 0.05 0 18 34 18 2 2 0 2 0.05 40 18	31	19	2	0	0	0	0.05	0	19
34 18 2 2 0 2 0.05 40 18	32	18	1	0	0	0	0.05	0	18
	33	18	14	0	0	0	0.05	0	18
<u>35 18 3 0 0 0 0.05 0 18</u>	34	18	2	2	0	2	0.05	40	18
	35	18	3	0	0	0	0.05	0	18

Appendix J: Environmental Management Principles



77 Wyndham Street South . Guelph ON N1E 5R3 . T 519.822.1609 . F 519.822.5389 . www.dougan.ca

March 22nd, 2016

Draft Environmental Management Principles for the Thundering Waters Secondary Plan Natural Heritage System

Following a Technical Advisory Meeting on January 26th, 2016, it was recognized that the natural heritage strategy for the Thundering Water's project should be guided by a set of overarching natural heritage system planning and implementation principles.

The outcome being to:

- (i) provide information on key issues and opportunities to the technical advisory team, agencies, stakeholders, and proponent
- (ii) to develop an environmental strategy that is consistent with provincial, regional and municipal policy; and
- (iii) to provide a framework that allows the secondary plan, subdivision and associated environmental impact assessment to proceed on a basis of meeting the agreed upon principles.

This document ("Management Principles") provides guidance to the land-use, infrastructure, and servicing planning teams to ensure the protection of key natural heritage features and functions are maintained on and adjacent to the Thundering Waters property. They will also be used as a tool in the Environmental Impact Assessment (EIA) to determine the potential for development. These principles are currently presented as a work-in-progress, and once vetted and a consensus among agencies reached, will be finalized with the submission of the Environmental Impact Study (EIS).

As outlined in summaries of the Master Plan, the vision for natural heritage protection and integration with the proposed development includes:

- Ensuring protection and linkage of key wetland features
- Avoiding impacts, and where possible, improving the hydrological function of protected wetland areas
- Where necessary, enhance the condition of the natural areas that will be protected and identify areas for restoration
- Incorporate green space into the built form that provide complementary functions for wildlife that use the protected natural areas

Consistent with the Master Plan vision, four guiding principles for environmental management were outlined in the preliminary Environmental Characterization report circulated by D&A in early November 2015:

Natural Heritage Planning
 Landscape Design
 Ecological Assessment & Management
 Environmental Impact Assessment

 Ecological Restoration & Habitat Creation
 Urban Forest Management
 Ecological Monitoring & Education

 Peer Review & Expert Witness Testimony

- Consolidate and complement the existing protected areas where important woodland features (i.e. having old-growth forest characteristics) are adjacent to and contiguous with the PSW/EPA boundaries
- Promote opportunities/functional linkages of protected areas (known PSW/EPA areas, and those to be identified) using a combination of natural and anthropogenic corridors.
- Identify areas on-site that provide practical opportunities for enhancement and/or compensation for natural areas that will be impacted in the context of future urban uses.
- Outline appropriate inventory and monitoring methods to assess the environmental management strategy objectives and targets and establish adaptive measures.

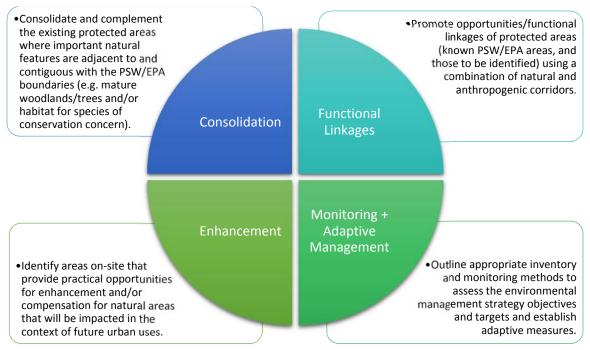


Figure 1 - Guiding Environmental Management Principles

The fundamental principle guiding the development of the Natural Heritage System is one of 'No Net Loss' of ecological features and functions. The following five themes outlined some specific working goals and objectives to support the proposed environmental management principles:

- 1. Recommendations for protection
- 2. Opportunities for enhancement and compensation
- 3. Special consideration areas (e.g. rail corridor, Conrail Drain)
- 4. Integration with built form
- 5. Implementation/permitting considerations

1. Recommendations for Protection

Protection and conservation of natural features and functions should focus on maintaining the high biodiversity value and ecosystem function that is present on the property. Priority should be placed on protecting core areas, ensuring linkage opportunities are maintained and/or created, and ensuring the features that are maintained will sustain enough habitat to support viable populations of key species. Natural elements that are currently present on the property and should be represented in the post-development NHS include:

- Environmental Protection Areas (EPA), which includes the Niagara Peninsula Slough Forest Provincially Significant Wetland (PSW)
- Environmental Conservation Areas (ECA) (including woodlands with old-growth characteristics adjacent to designated EPA areas)
- Endangered/Threatened Species at Risk and their associated habitat
- Old growth/Mature Forest Habitat
- Shrub/Early Successional Bird Habitat
- Bat Maternity Roost Habitat
- Mast Tree Habitat
- Amphibian Breeding Habitat (Woodland Type)
- Habitat for Provincially Rare and/or Species of Special Concern (Schreber's Aster, Honey Locust, Eastern Wood-Pewee, Wood Thrush, and Snapping Turtle)
- Reptile Hibernacula
- Deer Winter Congregation Areas
- Rare Vegetation Communities
- The permanent watercourse present on the east side of the property

2. Opportunities for Enhancement and Compensation

Opportunities exist on the property to improve degraded areas that exist within protected areas, and to improve and/or establish new natural areas. This will help to offset reductions in green space that will occur within the developed areas of the property. The main objective will be consolidating the key areas, and maintaining/creating linkages among them. Opportunities include:

- Enhancement of degraded provincially significant wetland areas through recreating vernal pond habitats, removal of invasive species, and establishment of native understory species (in both wetland upland areas).
- Revegetation of areas that are currently anthropogenic/cultural that will not be incorporated into the developed area.
- Wetland creation in identified compensation areas to offset any loss of pond and wetland habitats and functions that are removed as part of the development lands.
- Revegetation of Stormwater Management Facilities and the Conrail Drain with a focus on early successional shrub habitats.
- Use of native plant species to revegetate of natural and anthropogenic corridors (created linkages).

3. Special Consideration Areas (e.g. Rail Corridor, Conrail Drain, Park blocks)

A number of existing human-made and natural elements on the subject property provide opportunities for maintaining and/or enhancing the ecological features and functions following development. These include, but are not limited to the rail corridor, the Conrail Drain, and individual trees.

- Rail Corridor identify opportunities for natural heritage enhancements along the rail corridor setbacks; identify opportunities for eco-passages under the rail to facilitate long-term linkage opportunities for amphibians and other small wildlife
- Conrail Drain identify opportunities for natural heritage enhancement within and along the Conrail Drain
- Individual Trees large mature trees scattered across the site; where grading permits they should be identified during detailed site planning, and preserved if possible.

4. Integration with Built Form

The built form of the proposed secondary plan area will include land-uses that support and/or complement feature and functions of the core and linkage areas. For example, Storm Water Management facilities, parks, and trail areas can provide opportunities for restoring native plant communities, creating habitat for wildlife, and other ecological functions. Recommendations include, but are not limited to:

- Buffers use of buffers to ensure hydrological function of key features is protected and/or enhanced; allowance for trails within buffer areas to direct pedestrian movement and avoid encroachment into key features; allowance for variable width buffers depending on adjacent land uses and trail alignments
- Grading identify opportunities to direct clean runoff into and/or away from the protected NHS to ensure local hydrologic conditions of vernal pools and ponds are not impacted; and identify opportunities to redirect clean runoff into vernal pool and other pond restoration areas
- Encroachment Management ensure edge of NHS is demarcated using interpretative signs and fencing where necessary
- Storm Water Management identify opportunities for natural heritage enhancements within SWM blocks
- Trails to the extent feasible, identify trail opportunities outside of the NHS; where entering the NHS, avoid core areas within the core features (i.e. existing vernal pools, most interior areas, mature old-growth areas); make use of dead-end trails; use boardwalks where feasible to avoid impacts to wetlands and compaction of forest floor
- Park Blocks identify natural heritage enhancement opportunities within park blocks;
- Road Crossing Designs where road crossings bi-sect corridor areas between core features, identify location and type of eco-passages that will facilitate movement of amphibians and other small wildlife
- Watercourse Crossing Designs where watercourse crossings are proposed, ensure ecological linkage for wildlife is incorporated into design considerations

5. Implementation & Permitting Considerations

Consideration of factors that reduce impacts during pre-development, construction, and post development phases will help with the successful implementation and long-term sustainability of the NHS. Recommendations that are provided below outline considerations related to timing of disturbances, use of an adaptive management framework, and use of on-site plant materials for rehabilitation and restoration of degraded core areas, where compensation areas are identified, and within enhancement areas on built form land-uses:

- Avoid and/or minimize disturbance in and adjacent to defined NHS areas (particularly core features)
- Time development to avoid key life-history periods for wildlife (e.g. spring breeding of amphibians and nesting for migratory birds) and when soils on the site are saturated (e.g. following the spring melt)
- Initiate natural heritage enhancement and compensation works prior to development, and/or in-step with development phasing to ensure proposed enhancement and compensation projects are successful
- Adaptive management and adjustments during detailed design to avoid significant species and/or habitats that have not currently been identified (e.g. snake hibernacula, Species at Risk)
- Use of native plant species to minimize establishment of non-native invasive species
- Biodiversity Salvaging: Rescue and relocation of wildlife such as amphibians and turtles, and
 native plants. Many opportunities exist for collecting and using existing plant and animal
 species for relocation into existing and/or restored areas on the property. This will ensure that
 representative plant and wildlife species that exists in impacted areas will be retained for use
 as part of the overall restoration and enhancement strategy. Measures include:
 - Seed collection to ensure a supply of locally adapted native plants are archived for future restoration/enhancement initiatives
 - Removal, storage, and re-use of soil propagule banks (e.g. top soil from areas with a high concentration of native seeds, rhizomes, bulbs, and other plant reproductive material)
 - Salvaging of other ecosystem elements that can provide habitat structure (e.g. logs, tree stumps, boulders, and large rocks)