

Version 1.1

694 Birchview Road in the  
Township of Douro-Dummer

September 2025

# Environmental Impact Study



Prepared For:  
Scott Moore

Prepared By:  
Sumac Environmental Consulting



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September 23, 2025

SEC 25-048

Scott Moore  
694 Birchview Road  
Lakefield, Ontario  
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c/o KMD Planning Inc.  
560 Romaine Street  
Peterborough, Ontario  
K9J 2E3

**Re: Environmental Impact Study at 694 Birchview Road in the Township of Douro-Dummer**

Dear Mr. Moore,

Thank you for retaining Sumac Environmental Consulting to prepare an Environmental Impact Study at 694 Birchview Road in the Township of Douro-Dummer. The following report identifies the form and function of natural heritage on the subject property and assesses the potential impacts to said features with respect to a proposed redevelopment. Recommendations and mitigation strategies have been included. This report has been prepared for Scott Moore and the undersigned accepts no responsibility for future use by other parties.

We thank you for the opportunity to be part of this project and should you have any questions, please do not hesitate to contact the undersigned.

Sumac Environmental Consulting

A handwritten signature in cursive script, appearing to read "C Fligg".

Cassandra Fligg, M.Sc.  
Environmental Consultant

A handwritten signature in cursive script, appearing to read "Nathan Fligg".

Nathan Fligg, M.Sc.  
Environmental Consultant/GIS Technician

## Report Summary

Sumac Environmental Consulting has prepared an Environmental Impact Study at 694 Birchview Road in the Township of Douro-Dummer. It is our understanding that this report has been requested by the Township of Douro-Dummer in response to a development application that supports the re-construction of an existing dwelling on the subject property. Site visits were carried out in spring and summer of 2025 to examine natural features that have the potential of being impacted by a proposed development. A Species at Risk Habitat Assessment was completed to screen for absent, candidate and confirmed habitat of endangered and threatened species (HETS). A Significant Wildlife Habitat (SWH) Assessment was completed to screen for absent, candidate and confirmed SWH. Fish habitat, HETS, SWH and significant woodland were identified as occurring on or near the subject property. Significant impacts to the identified features are not anticipated, should the proponent follow the recommendations provided herein.

The recommendations provided in Section 8.2 are summarized as follows:

- All disturbed portions of the subject property should be re-seeded and planted with native non-invasive vegetation immediately following the completion of site works.
- Tree preservation hoarding should be used during construction to protect the remaining treed communities.
- A silt fence should be used during construction to protect aquatic features.
- An emergency response plan should be prepared for all works involving machinery in case of fluid leaks.
- All machinery should be kept in a clean condition and free of fluid leaks.
- Washing, fueling and servicing machinery should not occur within 30 m of aquatic features.
- Stockpiling of fill and/or construction material should not occur within 30 m of aquatic features.
- To protect breeding migratory birds, vegetation removal should not occur between April 1 and August 31 of any given year unless otherwise directed by a biologist or other qualified person at the time of site works.
- To protect roosting bats, tree removal should not occur between April 1 and November 30 of any given year unless otherwise directed by a biologist or other qualified person at the time of site works.
- To protect breeding monarch, vegetation removal should not occur between June 1 and September 30 of any given year unless otherwise directed by a biologist or other qualified person at the time of site works.
- Encountered wildlife should be allowed to exit the site on their own, via safe routes, or be removed/relocated by qualified wildlife service providers working in accordance with applicable laws.

## Key Staff

### *Environmental Consultant – Cassandra Fligg, M.Sc.*

Mrs. Fligg received a master's degree in science (biology) from Lakehead University. She has previously been qualified as an Ecologist with expertise in natural heritage and freshwater ecology by the Ontario Land Tribunal. Mrs. Fligg is proficient in the preparation of natural heritage reports in southern and central Ontario, particularly those that include policy of the Lake Simcoe Protection Plan, Greenbelt Plan, Oak Ridges Moraine Conservation Plan and Niagara Escarpment Plan. She has prepared species at risk screenings to the satisfaction of the Ministry of Environment, Conservation and Parks and assisted proponents in demonstrating avoidance to the harm and/or destruction of species at risk and their habitat, and navigated proponents through the overall benefit permit process where complete avoidance was not possible. Mrs. Fligg is a certified arborist as recognized by the International Society of Arboriculture, certified butternut health assessor as recognized by the Ministry of Natural Resources and Forestry, certified level 2 backpack electrofisher (crew leader) and has completed a fish identification workshop, turtle identification and handling workshop, and diatom algae culture and isolation workshop.

### *Environmental Consultant – Nathan Fligg, M.Sc.*

Mr. Fligg is a well-versed ecologist with more than 15 years experience in both plant and wildlife identification. He is actively building on his identification skills and knowledge through the review of relevant flora literature and the undertaking of field studies for Sumac's natural heritage reports and species at risk screenings in southern and central Ontario. Mr. Fligg has performed various habitat and species-specific studies across southern and central Ontario to the satisfaction of municipalities, conservation authorities, environmental associations, land trust organizations, Niagara Escarpment Commission, Department of Fisheries and Oceans Canada, Ministry of Natural Resources and Forestry, as well as, the Ministry of Environment, Conservation and Parks. Mr. Fligg completed an undergraduate degree in Environmental Sustainability and further went on to receive a master's degree in science from Lakehead University. He is a provincially certified wetland evaluator, certified butternut health assessor, certified level 2 backpack electrofisher (crew leader) and is experienced in the safe handling and release of small mammals, birds, fish, amphibians and reptiles.

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## **1.0 Introduction**

Sumac Environmental Consulting (Sumac) was retained to prepare an Environmental Impact Study (EIS) at 694 Birchview Road in the Township of Douro-Dummer (hereinafter referred to as the 'subject property'). It is our understanding that an EIS has been requested by the Township of Douro-Dummer in response to a development application that supports the re-construction of an existing dwelling on the subject property.

The subject property is approximately 0.4 ha in size and consists of a single-family dwelling, accessory buildings, gravel driveway, landscaping, maintained lawn and natural cover (Figure 1). The subject property is situated on the shoreline of Clear Lake. According to the County of Peterborough GIS mapping, the subject property is located within the 'Lakeshore Residential' and 'Environmental Constraint' land use designations. The surrounding area is predominantly composed of lakeshore residential properties, open water and natural cover.

## **2.0 Planning Context**

### **2.1. Federal**

#### **2.1.1. Fisheries Act**

The fish and fish habitat protection provisions of the *Fisheries Act* include two (2) core prohibitions against persons carrying on works, undertaking or activities that result in the following:

- the death of fish, by means other than fishing; and
- the harmful alteration, disruption, or destruction of fish habitat.

#### **2.1.2. Migratory Birds Convention Act**

The purpose of the *Migratory Birds Convention Act* is to implement the Convention by protecting and conserving migratory birds – as populations and individual birds – and their nests. Migratory Birds Regulations is a regulation made under the *Migratory Birds Convention Act*. Section 5 (1) of the Migratory Birds Regulation states that a person must not engage in any of the following activities unless they have a permit that authorizes them to do so or they are authorized by these Regulations to do so:

- (a) capture, kill, take, injure or harass a migratory bird or attempt to do so;
- (b) destroy, take or disturb an egg; and
- (c) damage, destroy, remove or disturb a nest, nest shelter, eider duck shelter or duck box.

## **2.2. Provincial**

### **2.2.1. Endangered Species Act**

Ontario's *Endangered Species Act* (ESA) provides protection, designation, recovery and other relevant aspects of conservation for species at risk, including habitat protection in the province.

As per Section 9 (1) of the ESA, no person shall

- a. kill, harm, capture or take a living member of a species that is listed on the Species at Risk in Ontario List as an extirpated, endangered or threatened species;
- b. possess, transport, collect, buy, sell, lease, trade or offer to buy, sell, lease or trade,
  - (i) a living or dead member of a species that is listed on the Species at Risk in Ontario List as an extirpated, endangered or threatened species,
  - (ii) any part of a living or dead member of a species referred to in subclause (i),
  - (iii) anything derived from a living or dead member of a species referred to in subclause (i); or
- c. sell, lease, trade or offer to sell, lease or trade anything that the person represents to be a thing described in subclause (b) (i), (ii) or (iii). 2007, c. 6, s. 9 (1).

As per Section 10 (1) of the ESA, no person shall damage or destroy the habitat of,

- a. a species that is listed on the Species at Risk in Ontario List as an endangered or threatened species; or
- b. a species that is listed on the Species at Risk in Ontario List as an extirpated species, if the species is prescribed by the regulations for the purpose of this clause. 2007, c. 6, s. 10 (1).

### **2.2.2. Fish and Wildlife Conservation Act**

The *Fish and Wildlife Conservation Act* aims to conserve and manage fish and wildlife in Ontario.

Section 7 (1) of the *Fish and Wildlife Conservation Act* states that a person shall not destroy, take or possess the nest or eggs of a bird that belongs to a species that is wild by nature.

Section 8 (2) of the *Fish and Wildlife Conservation Act* states that a person shall not intentionally damage or destroy the den or habitual dwelling of a furbearing mammal, other than a fox or skunk, unless the person holds a licence to trap furbearing mammals.

### **2.2.3. Provincial Planning Statement**

As per Section 4.1.4 of the Provincial Planning Statement, development and site alteration shall not be permitted in significant wetlands in Ecoregions 6E.

As per Section 4.1.5 of the Provincial Planning Statement, development and site alteration shall not be permitted in significant woodlands in Ecoregions 6E, significant valleylands in Ecoregions 6E, significant wildlife habitat, and significant areas of natural and scientific interest unless it has been demonstrated that there will be no negative impacts on the natural features or their ecological functions.

As per Section 4.1.6 of the Provincial Planning Statement, development and site alteration shall not be permitted in fish habitat except in accordance with provincial and federal requirements.

As per Section 4.1.7 of the Provincial Planning Statement, development and site alteration shall not be permitted in habitat of endangered species and threatened species, except in accordance with provincial and federal requirements.

As per Section 4.1.8 of the Provincial Planning Statement, development and site alteration shall not be permitted on adjacent lands to the natural heritage features and areas identified in policies 4.1.4, 4.1.5, and 4.1.6 unless the ecological function of the adjacent lands has been evaluated and it has been demonstrated that there will be no negative impacts on the natural features or on their ecological functions.

### **2.2.1. Conservation Authorities Act**

Regulated lands of the Otonabee Region Conservation Authority (ORCA) have been mapped on the subject property (Appendix A). Conservation Authorities are empowered by the *Conservation Authorities Act* to regulate development and activities in or adjacent to river or stream valleys, Great Lakes and inland lakes' shorelines, watercourses, hazardous lands and wetlands.

## **2.3. Municipal**

### **2.3.1. County of Peterborough Official Plan**

As per the County of Peterborough Official Plan (office consolidation 2022), the following land use designations have been mapped on the subject property:

- Lakeshore Residential (County GIS mapping); and
- Environmental Constraint (County GIS mapping).

As per Section 4.1.3.4 of the County of Peterborough Official Plan (office consolidation 2022), local plans will prohibit development and site alterations within the following types of significant natural heritage features:

- significant wetlands;

- significant portions of the habitat of endangered and threatened species;

Moreover, local plans may permit development and site alteration in:

- significant woodlands south and east of the Canadian Shield;
- significant valleylands south and east of the Canadian Shield;
- significant wildlife habitat; and;
- significant areas of natural and scientific interest;

Development and site alteration will not be permitted in fish habitat except in accordance with provincial and federal requirements.

Moreover, development or site alteration such as filling, grading and excavating may be permitted within or adjacent to the remaining natural heritage features listed in Section 4.1 of this Plan, provided that it has been demonstrated by an Environmental impact assessment that there will be no negative impacts on the natural features or ecological functions for which the area is identified.

As per Section 4.4.3 of the County of Peterborough Official Plan (office consolidation 2022), notwithstanding any other policy of Section 4.4.3, local plans and zoning by-laws will require that all new development and leaching beds be set back at least 30 metres from the ordinary high water marks of all waterbodies. Excepted from this requirement are marina facilities, and other water access facilities, pumphouses, and minor accessory buildings and structures as defined in zoning by-laws.

As per Section 6.2.6.2 of the County of Peterborough Official Plan (office consolidation 2022), the predominant use of land within the Lakeshore Residential designation shall be for permanent single-detached dwellings and seasonal cottages on public roads.

As per Section 6.2.6.3 c. of the County of Peterborough Official Plan (office consolidation 2022), with respect to Lakeshore Residential Policies, structures permitted in the Lakeshore Residential designation, including leaching beds of septic systems, on lots created by consent or plan of subdivision after the date Official Plan Amendment No.3 comes into effect, shall be set back a minimum of 30 metres from the shoreline of any lake or major watercourse in order to ensure adequate protection from changes in water level and flooding and to ensure maintenance of water quality and the protection of fish and wildlife habitats.

Moreover, notwithstanding anything in this section to the contrary, structures such as pump houses, boat houses, docks, open decks and stairs shall be a permitted use and may encroach into the 30 metre setback without a minor variance provided that the property owner can demonstrate

to the Township's satisfaction and, if appropriate, the authority having jurisdiction over the waterway, that it does not negatively affect the waterfront environment.

Moreover, structures legally existing as of the date Official Plan Amendment No.3 comes into effect (October 22, 2008) that do not comply with the required water setback provision that require replacement due to structural defects or destruction by fire or other natural causes or by permission of the Township will be permitted to be replaced on the same footprint and may only be enlarged in accordance with the provisions of the Zoning By-law, and where the enlargement does not further encroach into the 30 metre water setback.

Moreover, sewage system leaching beds requiring replacement due to structural damage or malfunction should be set back a minimum of 30 metres from the high water mark if possible or to the greatest setback that is achievable to the satisfaction of the Peterborough County-City Health Unit. Due to their importance to ensuring public health and/or safety, a minor variance will not be required in the case where the replacement leaching beds must be located within the 30 metre water setback.

Moreover, with respect to existing structures, minor variances or zoning changes to accommodate proposed expansions of a structurally-permanent nature to existing structures and/or septic systems that further reduce any applicable minimum water setback shall not be permitted unless it is a matter of public health and/or safety.

As per Section 6.2.15.2 of the County of Peterborough Official Plan (office consolidation 2022), with respect to permitted uses, the predominant use of land within the Environmental Constraint designation is the preservation and conservation of the natural environment.

### **2.3.1. Township of Douro-Dummer**

The Township of Douro-Dummer has included their local policies in the County Official Plan.

## **3.0 Background Review**

The following resources were reviewed to gain a deeper understanding of natural heritage with the potential of occurring on the subject property and adjacent lands (i.e., up to 120 m):

- Atlas of the Mammals of Ontario (Dobbyn, 1994);
- Atlas Square No. 17QK22 of the Ontario Butterfly Atlas;
- Atlas Square No. 17QK22 of the Ontario Reptile and Amphibian Atlas;
- Atlas Square No. 17QK2229 and 17QK2129 of the Natural Heritage Information Centre;
- Atlas Square No. 17TQK22 of the Ontario Breeding Bird Atlas;

- County of Peterborough Official Plan (office consolidation 2022);
- Department of Fisheries and Oceans Canada Aquatic Species at Risk Map;
- eBird;
- iNaturalist;
- Land Information Ontario;
- Ministry of Natural Resources (MNR) Aquatic Resources Area Mapping; and,
- Peterborough County Official Plan (June 2022 draft).

Given the relevant planning jurisdiction, the following features are being considered in the EIS, where applicable to the subject property and adjacent lands:

- Areas of Natural and Scientific Interest (ANSI);
- Fish Habitat;
- Habitat of Endangered and Threatened Species;
- Significant Valleylands;
- Significant Wetlands;
- Significant Wildlife Habitat; and
- Significant Woodlands.

#### **4.0 Characterizing the Natural Environment: Approach and Methodology**

##### **4.1. Vegetation**

###### **4.1.1. Botanical Inventory**

A vascular plant inventory was completed on June 6, 2025 for the vegetation communities that occur on or extend onto the subject property.

###### **4.1.2. Vegetation Communities**

Orthographic imagery of the subject property and adjacent lands was used for the basis of Ecological Land Classification (ELC) and further refined through a ground-truthing exercise on June 6, 2025. Vegetation communities were classified following protocol of the Ecological Land Classification (ELC) for Southern Ontario (Lee, H. et al., 1998) and associated Vegetation Type List (Lee, H., 2008), where applicable.

##### **4.2. Area of Natural and Scientific Interest**

Background mapping from the MNR was reviewed to identify the nearest ANSI.

### 4.3. Fish Habitat

Fish habitat is defined in subsection 2(1) of the *Fisheries Act* to include all waters frequented by fish and any other areas upon which fish depend directly or indirectly to carry out their life processes. The subject property, including its shoreline, was screened on June 6, 2025 for evidence of supporting features to fish habitat associated with Clear Lake. Fish habitat and supporting features to fish habitat were mapped and characterized accordingly.

### 4.4. Habitat of Endangered and Threatened Species

For the purpose of this study, we have defined “Species at Risk” (SAR) to include species designated special concern, threatened and endangered under O. Reg. 230/08 in accordance with the ESA. Species occurrence data from sources outlined in Section 3.0 of this report was used to determine which species at risk are known to occur in proximity to the subject property. An ELC exercise was completed to identify potential habitat opportunities for the listed species at risk. A SAR Habitat Assessment was completed to identify candidate, confirmed and absent SAR habitat on the subject property.

#### 4.4.1. Birds

Two (2) dawn breeding bird surveys were completed in general accordance with dawn breeding bird survey protocol (OBBA, 2021). Surveys were completed within the first five (5) hours after dawn between May 24 and July 10. The first survey was completed on or before June 15. The second survey was completed on or after June 15. Surveys were not completed during events of precipitation, fog or high winds (i.e., up to 3 on the Beaufort wind scale). A single point count stations were used to carry out the surveys (Figure 2). The survey conditions were as follows:

| Date         | Surveyor(s)  | Time      | Temp. | Cloud Cover | Wind | Precip. |
|--------------|--------------|-----------|-------|-------------|------|---------|
| June 6, 2025 | Nathan Fligg | 0820-0825 | 18°C  | 70%         | B1   | Nil.    |
| July 5, 2025 | Nathan Fligg | 0805-0810 | 19°C  | 50%         | B0   | Nil.    |

#### 4.4.2. Mammals

Passive acoustic monitoring for bats was completed on the evenings of June 23<sup>rd</sup> to July 7<sup>th</sup> of 2025 at two (2) monitoring stations using the Song Meter Mini Bat by Wildlife Acoustics to ensure full coverage of the subject property. Data was initially analyzed using Kaleidoscope Pro Analysis Software. Individual wavelengths and frequency of each recording was further scrutinized by Sumac staff to appropriately evaluate species presence.

### 4.5. Valleyland

The subject property was screened for valleyland associated with flowing water. If present, valleyland was assessed for significance using the recommended evaluation criteria and standards

as described in the Natural Heritage Reference Manual for Natural Heritage Policies of the Provincial Policy Statement (MNR, 2005).

#### **4.6. Wetland**

The subject property was screened on June 6, 2025 for wetland feature(s) and if present, delineated following the appropriate method (e.g., 50% vegetation rule) as described in the Ontario Wetland Evaluation System: Southern Manual 4<sup>th</sup> Edition. Digital terrain models and orthographic imagery were used to identify candidate wetland on the adjacent lands.

#### **4.7. Wildlife Habitat**

Incidental observations of wildlife, wildlife signs (e.g., scat, tracks, remains of food, claw marks on trees or shrubs, trails or corridors, stunted vegetation, stick nests, turned stones) and habitat opportunities were noted during Sumac's field investigations.

The potential for Significant Wildlife Habitat (SWH) on the subject property was assessed following criteria and thresholds outlined in the Significant Wildlife Habitat Criteria Schedules for Ecoregion 6E (MNR, 2015).

#### **4.8. Woodland**

The ELC approach for defining "forest" using canopy cover was used to delineate woodland patches that occur on or extend onto the subject property on June 6, 2025. If present, woodland patches were mapped and characterized. Woodland significance was assessed using the recommended evaluation criteria and standards as described in the Natural Heritage Reference Manual for Natural Heritage Policies of the Provincial Policy Statement (MNR, 2005).

### **5.0 Data Analysis**

#### **5.1. Vegetation**

##### **5.1.1. Botanical Inventory**

A list of vascular plant species for the vegetation communities that extend onto the subject property has been provided for reference (Table 1).

##### **5.1.2. Vegetation Communities**

The subject property contained three (3) distinct vegetation communities (Figure 2):

1. CVR\_3 Single-family Residential: Approximately 1,641 m<sup>2</sup> of maintained land occurred throughout central and northern portions of the subject property. This area contained a

- single-family dwelling and amenities (i.e., accessory buildings, gravel driveway, landscaping and maintained lawn).
2. FOM2-2 Dry – Fresh White Pine – Sugar Maple Mixed Forest Type: Approximately 2,522 m<sup>2</sup> of mixedwood forest occurred throughout the property and extended into the adjacent lands. A mature canopy consisted mostly of sugar maple with Eastern white pine, Northern red oak, and basswood. A moderately developed understory consisted mostly of sugar maple, basswood and ironwood. A sparse shrub layer consisted of various species (e.g., Eastern prickly gooseberry, European buckthorn, maple-leaved viburnum, etc.). The ground level was sparsely vegetated with forbs (e.g., red baneberry, wild sarsaparilla, white trillium, etc.).
  3. OA Open Water: The shoreline of Clear Lake occurred along the northern edge of the subject property. The foreshore was unvegetated, consisting mostly of boulder and cobble. The foreshore contained very sparse cover with submergent vegetation (i.e., American eelgrass) amongst cobble, gravel and sand.

## **5.2. Area of Natural and Scientific Interest**

The nearest ANSI, Youngs Point White Pine Stand, is mapped approximately 1.7 km west of the subject property (Appendix B). No further analysis required.

## **5.3. Fish Habitat**

Data extracted from the MNR Aquatic Resource Area database identified Clear Lake as exhibiting a warm water thermal regime with documented occurrences of a variety of fish species (e.g., black crappie, bluegill, golden shiner, lake whitefish, largemouth bass, logperch, muskellunge, pumpkinseed, rock bass, smallmouth bass, walleye, white sucker, yellow perch etc.). The Ordinary High Water Mark (OHWM) was recorded during Sumac's field investigations and has been mapped for reference (Figure 3).

## **5.4. Habitat of Endangered and Threatened Species**

No endangered or threatened plant species were encountered on the subject property (Table 1).

No endangered or threatened bird species were observed during the dawn breeding bird surveys nor through incidental occurrence (Table 2).

Acoustic monitoring detected the following bat species on the subject property:

- Big Brown Bat;
- Eastern Red Bat;
- Hoary Bat;

- Silver-haired Bat;
- Little Brown Myotis; and
- Tri-colored Bat.

The SAR Habitat Assessment identified candidate and confirmed habitat of the following endangered species on the subject property (Table 2).

#### **5.4.1. Mammals**

**Eastern Red Bat:** Acoustic monitoring detected Eastern red bat on the subject property. Roosting habitat likely includes the identified significant woodland feature. Foraging habitat likely includes the shoreline and forest edge.

**Hoary Bat:** Acoustic monitoring detected hoary bat on the subject property. Roosting habitat likely includes the identified significant woodland feature. Foraging habitat likely includes the shoreline and forest edge.

**Little Brown Myotis:** Acoustic monitoring detected little brown myotis on the subject property. Roosting habitat likely includes the identified significant woodland feature, as the existing dwelling did not exhibit notable entry points for bats. Foraging habitat likely includes the shoreline and forest edge.

**Silver-haired Bat:** Acoustic monitoring detected silver-haired bat on the subject property. Roosting habitat likely includes the identified significant woodland feature. Foraging habitat likely includes the shoreline and forest edge.

#### **5.5. Valleyland**

The topography on the subject property was not suggestive of the presence of valley or other landform depression associated with flowing water. No further analysis required.

#### **5.6. Wetland**

No wetland encountered on the subject property. No further analysis required.

#### **5.7. Wildlife Habitat**

The following observations were noted during Sumac's field investigations:

- American Mink (*Neovison vison*);
- Eastern Chipmunk (*Tamias striatus*);

- Gray Treefrog (*Hyla versicolor*);
- Quagga Mussel (*Dreissena bugensis*);
- Rusty Crayfish (*Faxonius rusticus*); and
- Zebra Mussel (*Dreissena polymorpha*).

The SWH Assessment identified two (2) candidate SWH as occurring on the subject property.

#### **5.7.1. Seasonal Concentration Areas of Animals**

Bat Maternity Colonies: The FOD5 and FOM2-2 communities have the potential of containing bat maternity roost sites and functioning as the SWH, Bat Maternity Colonies.

#### **5.7.2. Habitats of Species of Conservation Concern Considered SWH**

Special Concern and Rare Wildlife Species: No provincially rare plant species were encountered on the subject property (Table 1). No provincially rare bird species were observed on the subject property during (Table 2). Habitat for special concern species has the potential of occurring on the subject property (Table 3).

Monarch: Monarch breeding may occur in the FOM2-2 community where common milkweed is found. No area with an abundance of favorable nectar sources for monarch identified on the subject property.

Northern Map Turtle: Northern map turtle may utilize the rocky shoreline of Clear Lake for basking, should this species be present. No high-quality turtle nesting habitat identified on the subject property.

### **5.8. Woodland**

The forested communities that occur on the subject property (i.e., FOD5 and FOM2-2 communities) for part of a woodland feature that extends across the greater landscape, measuring greater than 100 ha in size. According to the Otonabee Region Watershed Report Card (2023), woodland cover in this jurisdiction is approximately 42%. According to the Natural Heritage Reference Manual, where woodland cover is about 30-60% of the land cover, woodlands 50 ha in size or larger should be considered as significant. As such, the forested communities that occur on the subject property would be considered as significant woodland.

## **6.0 Project Description**

The proposed development supports the reconstruction of an existing dwelling, decommissioning and removal of an existing septic system and construction of a new septic system on the subject

property. The impact assessment below reviews impacts associated with a development contained within the Area of Work, as depicted on Figure 3.

## **7.0 Impact Assessment**

### **7.1. Vegetation**

Up to 387 m<sup>2</sup> and 556 m<sup>2</sup> of the FOM2-2 and CVR\_3 communities will be disturbed to facilitate the proposed development, respectively. The proponent is encouraged to re-vegetate all disturbed areas remaining post-development with non-invasive native trees, shrubs and groundcover, where feasible (Section 8.2.2). Bird-friendly design is recommended due to proximity of the proposed dwelling to natural cover (Section 8.2.1).

### **7.2. Fish Habitat**

The proposed development is not located in Clear Lake and as such, no direct impacts to fish habitat are anticipated. The existing building is located approximately 14.8 m to the OHWM. The proposed building is located approximately 15.3 m from the OHWM. The existing septic system is being decommissioned and removed. The proposed septic system is located more than 30 m from the OHWM.

The proposed building is set further away from Clear Lake and with consideration of nutrient loading, the new septic system will be located an appropriate distance away from Clear Lake. Site specific measures are recommended to protect fish habitat during construction (Section 8.2.3 and 8.2.4).

### **7.3. Habitat of Endangered and Threatened Species**

#### **7.3.1. Mammals**

Eastern Red Bat, Hoary Bat, Little Brown Myotis and Silver-haired Bat: Although tree removal from the FOM2-2 community is required to facilitate the proposed development, this amount of removal would be considered very small (<0.1%) relative to the remaining amount of available roosting habitat for Eastern red bat, hoary bat, little brown myotis and silver-haired bat.

Moreover, the proposed development is not anticipated to significantly impair or eliminate the available candidate foraging habitat (e.g., forest edge, shoreline) for said species. To protect roosting migratory bats, tree clearing should not occur during the active bat window (Section 8.2.5).

## **7.4. Wildlife Habitat**

### **7.4.1. Seasonal Concentration Areas of Animals**

Bat Maternity Colonies: Although tree removal from the FOM2-2 community is required to facilitate the proposed development, this amount of removal would be considered very small (<0.1%) relative to the remaining amount of available maternity roosting habitat for migratory bats. To protect roosting migratory bats, tree clearing should not occur during the active bat window (Section 8.2.5).

### **7.4.2. Habitats of Species of Conservation Concern Considered SWH**

Special Concern and Rare Wildlife Species:

Monarch: The proposed development will not remove all common milkweed that occurs on the subject property. Monarch are known to be habitat generalists and will likely utilize areas beyond the limits of the subject property to carry out essential life processes, such as breeding, post-development. To protect breeding monarch, vegetation clearing should not occur between June 1 and September 30 of any given year unless otherwise directed by a biologist or other qualified person at the time of site works (Section 8.2.5).

Northern Map Turtle: No site alteration is proposed at the shoreline of Clear Lake and as such, no negative impacts to Northern map turtle and their habitat are anticipated.

## **7.5. Woodland**

Although tree removal from the FOM2-2 community is required to facilitate the proposed development, this amount of removal would be considered very small (<0.1%) relative to the remaining amount of significant woodland. As such, no significant impacts to the overall form and function of significant woodland are anticipated. Site specific measures are recommended to protect the remaining treed communities (Section 8.2.3).

## **8.0 Conclusion and Recommendations**

### **8.1. Conclusion**

Should the proponent adhere to the proposed development plan and follow the prescribed recommendations as noted below (Section 8.2), negative impacts to the overall form and function of the identified natural heritage on the subject property will be appropriately mitigated. Furthermore, it is our understanding that the proposed development as described herein would not contravene applicable environmental policy and regulations as described in Section 2.0 of this report.

## **8.2. Recommendations**

### **8.2.1. Bird-Friendly Design**

We recommend the use of warm-colored and low lumen lighting directed away from the remaining natural cover in the design of the proposed dwelling to limit light spill and pollution.

### **8.2.2. Native Plantings**

Disturbed areas should be re-seeded and planted with native non-invasive vegetation following construction, where feasible. The proponent should consult with the associated landscape professional supplying and/or planting the trees, shrubs and groundcover to discuss the appropriate fertilizing, watering and/or mulching schedule. Deciduous trees should be planted in the spring, following thaw, or in the fall, during leaf-off until freeze-up. Conifers should be planted in the spring until four weeks after deciduous trees have opened their leaves, or in the fall until freeze-up. Shrubs and ground cover can be planted in spring (e.g., April 15 to mid-June) and/or fall (e.g., September 1 to October 15). All conifers should be inspected for girdling roots before planting. Conifers that have extensive girdling should not be used. Nursery stock trees should be planted as soon as possible after delivery.

### **8.2.3. Perimeter Control**

Tree preservation hoarding is recommended to protect the remaining treed communities. The fence should be erected prior to the onset of siteworks and must remain in place for the duration of all construction activity. The recommended location of the fence is depicted on Figure 3. We recommend diligent monitoring of said fence throughout the entirety of the development to ensure the integrity of the fence does not fail. Tree preservation hoarding should meet municipal standards and specifications. In the absence of municipal standards and specifications, the following standards and specifications may be used:

- Orange high density polyethylene with 8.89 cm x 3.81 openings should be used for fencing material.
- Fence height should be a minimum of 1.2 m.
- Steel posts should be installed for support and spaced 2.43 m on center.
- Steel posts dimensions should be 5 cm x 1.82 m.
- Installation of tree preservation hoarding should not alter the existing grade unless otherwise indicated on the plans.
- Signage laminated in plastic should be affixed to the fencing, spaced every 15 m. Signage should read “KEEP OUT TREE PROTECTION AREA”.

A silt fence consisting of non-woven geotextile material wire looped to wooden/metal stakes installed at 2-m intervals for support should be erected prior to the onset of siteworks to protect

aquatic features. The proposed location of silt fence has been depicted on Figure 3. The silt fence should remain in place for the duration of all construction activity. The silt fence should be buried into the ground a minimum 30 cm and compacted with native materials. We recommend diligent monitoring of said fence throughout the entirety of the development to ensure the integrity of the fence does not fail.

#### **8.2.4. Preventing Entry of Deleterious Substances in Aquatic Feature(s)**

Deleterious substances should never be deposited and/or enter aquatic features. A response plan should be prepared prior to the onset of site works and an emergency spill kit should be kept on-site during site activities. All machinery should be kept in a clean condition and free of fluid leaks. Washing, fueling and servicing machinery should not occur within 30 m of aquatic features. Stockpiling of fill and/or construction material should not occur within 30 m of aquatic features.

#### **8.2.5. Sensitive Timing Window**

To protect breeding migratory birds, vegetation removal should not occur between April 1 and August 31 of any given year unless otherwise directed by a biologist or other qualified person at the time of site works.

To protect roosting bats, tree removal should not occur between April 1 and November 30 of any given year unless otherwise directed by a biologist or other qualified person at the time of site works.

To protect breeding monarch, vegetation removal should not occur between June 1 and September 30 of any given year unless otherwise directed by a biologist or other qualified person at the time of site works.

#### **8.2.6. Wildlife Encounters**

Any wildlife encountered during site clearing or subsequent construction activities should be allowed to exit the site on their own, via safe routes. Construction staff should not attempt to capture or handle most kinds of wildlife, unless an animal is in imminent peril or is injured and cannot wait for rescue by qualified personnel. Improper handling can result in injuries to both workers and wildlife and may in some cases contravene provincial or federal legislation. Removal and relocation of mammals, in particular, should only be done by qualified wildlife service providers working in accordance with applicable laws (i.e., *Fish and Wildlife Conservation Act*). Observation records should include the observer's name, date and time, species, location (descriptive and georeferenced), photographs, and action taken.

## 9.0 References

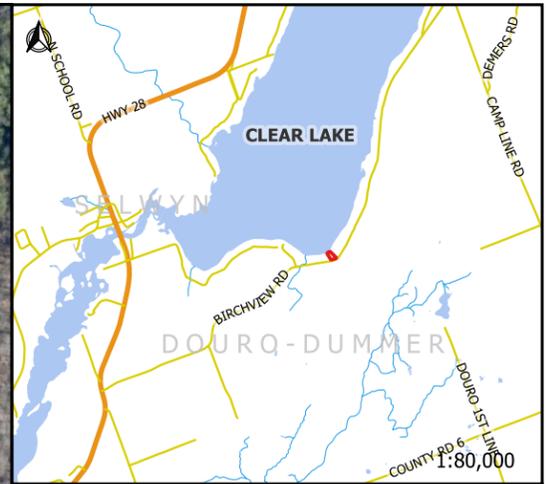
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- R.S.O. 1990, c. P.13. Planning Act.
- S.C. 1994, c. 22. Migratory Birds Convention Act.
- S.O. 1997, c. 41. Fish and Wildlife Conservation Act.
- S.O. 2007, c. 6. Endangered Species Act.

### **Limitations:**

This report was prepared using the most current site plan provided to Sumac's office. The conclusion and recommendations provided herein may no longer be applicable should changes be made to the site plan following submission of this report. The assessment provided herein is valid at the time of inspection.

### **Disclaimer:**

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Legend

-  Subject Property
-  Adjacent Lands

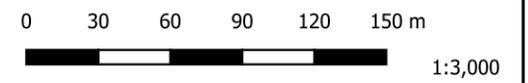


Figure 1: Subject Property



Designed by: N.F.  
Date: 09/19/2025  
Project: SEC 25-048



**Legend**

|               |  |
|---------------|--|
|               | Subject Property                                       |
|               | Adjacent Lands   |
|               | Dawn Breeding Bird Survey Station                      |
|               | ELC Vegetation Communities                             |
| <b>CUM1</b>   | Dry - Fresh Mineral Cultural Meadow Ecosite            |
| <b>CVR_3</b>  | Single Family Residential                              |
| <b>FOD5</b>   | Dry - Fresh Sugar Maple Deciduous Forest Ecosite       |
| <b>FODM11</b> | Naturalized Deciduous Hedge-row Ecosite                |
| <b>FOM2</b>   | Dry - Fresh White Pine - Hardwood Mixed Forest Ecosite |
| <b>FOM2-2</b> | Dry - Fresh White Pine - Sugar Maple Mixed Forest Type |
| <b>OA</b>     | Open Water<br>Mixed Mineral Meadow Marsh Ecosite       |



**Figure 2: Existing Conditions**



| Scientific Name                             | Common Name                    | Vegetation Community <sup>A</sup> |        |    | S-Rank <sup>B</sup> | G-Rank <sup>C</sup> | Provincially Tracked | Species at Risk Status  |                      | Non-native Status | Coefficient of Wetness |
|---|--------------------------------|-----------------------------------|--------|----|---------------------|---------------------|----------------------|-------------------------|----------------------|-------------------|------------------------|
|   |                                | CVR_3                             | FOM2-2 | OA |                     |                     |                      | Provincial <sup>D</sup> | Federal <sup>E</sup> |                   |                        |
| <i>Abies balsamea</i>                       | Balsam Fir                     | ✓                                 | ✓      |    | S5                  | G5                  | N                    |                         |                      |                   | -3                     |
| <i>Acer platanoides</i>                     | Norway Maple                   | ✓                                 |        |    | SNA                 | GNR                 | N                    |                         |                      | SE5               | 5                      |
| <i>Acer saccharum</i>                       | Sugar Maple                    | ✓                                 |        |    | S5                  | G5                  | N                    |                         |                      |                   | 3                      |
| <i>Actaea pachypoda</i>                     | White Baneberry                |                                   | ✓      |    | S5                  | G5                  | N                    |                         |                      |                   | 5                      |
| <i>Actaea rubra</i>                         | Red Baneberry                  |                                   | ✓      |    | S5                  | G5                  | N                    |                         |                      |                   | 3                      |
| <i>Aegopodium podagraria</i>                | Goutweed                       | ✓                                 |        |    | SNA                 | GNR                 | N                    |                         |                      | SE5               | 0                      |
| <i>Amelanchier canadensis</i>               | Canada Serviceberry            |                                   | ✓      |    |                     |                     |                      |                         |                      |                   |                        |
| <i>Amphicarpaea bracteata</i>               | American Hog-peanut            |                                   | ✓      |    | S5                  | G5                  | N                    |                         |                      |                   | 0                      |
| <i>Anemonastrum canadense</i>               | Canada Anemone                 |                                   |        | ✓  | S5                  | G5                  | N                    |                         |                      |                   | -3                     |
| <i>Apocynum androsaemifolium</i>            | Spreading Dogbane              |                                   | ✓      |    | S5                  | G5                  | N                    |                         |                      |                   | 5                      |
| <i>Aquilegia canadensis</i>                 | Red Columbine                  |                                   | ✓      |    | S5                  | G5                  | N                    |                         |                      |                   | 3                      |
| <i>Aralia nudicaulis</i>                    | Wild Sarsaparilla              |                                   | ✓      |    | S5                  | G5                  | N                    |                         |                      |                   | 3                      |
| <i>Arctium minus</i>                        | Common Burdock                 |                                   | ✓      |    | SNA                 | GNR                 | N                    |                         |                      | SE5               | 3                      |
| <i>Asclepias syriaca</i>                    | Common Milkweed                |                                   | ✓      |    | S5                  | G5                  | N                    |                         |                      |                   | 5                      |
| <i>Betula papyrifera</i>                    | Paper Birch                    | ✓                                 | ✓      |    | S5                  | G5                  | N                    |                         |                      |                   | 3                      |
| <i>Carex blanda</i>                         | Woodland Sedge                 |                                   | ✓      |    | S5                  | G5                  | N                    |                         |                      |                   | 0                      |
| <i>Carex bromoides</i>                      | Brome-like Sedge               | ✓                                 | ✓      |    | S5                  | G5                  | N                    |                         |                      |                   | -3                     |
| <i>Carex pensylvanica</i>                   | Pennsylvania Sedge             | ✓                                 |        |    | S5                  | G5                  | N                    |                         |                      |                   | 5                      |
| <i>Carex radiata</i>                        | Eastern Star Sedge             |                                   | ✓      |    | S5                  | G5                  | N                    |                         |                      |                   | 0                      |
| <i>Carya cordiformis</i>                    | Bitternut Hickory              |                                   | ✓      |    | S5                  | G5                  | N                    |                         |                      |                   | 0                      |
| <i>Chenopodium album</i>                    | Common Lamb's-quarters         | ✓                                 |        |    | SNA                 | G5                  | N                    |                         |                      | SE5               | 3                      |
| <i>Cirsium vulgare</i>                      | Bull Thistle                   | ✓                                 |        |    | SNA                 | GNR                 | N                    |                         |                      | SE5               | 3                      |
| <i>Convallaria majalis</i>                  | European Lily-of-the-valley    | ✓                                 | ✓      |    | SNA                 | G5                  | N                    |                         |                      | SE5               | 5                      |
| <i>Cornus Rugosa</i>                        | Round-leaved Dogwood           |                                   | ✓      |    | S5                  | G5                  | N                    |                         |                      |                   | 5                      |
| <i>Cypripedium parviflorum var. makasin</i> | Northern Yellow Lady's-slipper |                                   | ✓      |    | S4S5                | G5T4T5              | N                    |                         |                      |                   | 0                      |
| <i>Diervilla lonicera</i>                   | Northern Bush-honeysuckle      |                                   | ✓      |    | S5                  | G5                  | N                    |                         |                      |                   | 5                      |
| <i>Doellingeria umbellata</i>               | Flat-top White Aster           |                                   | ✓      |    | S5                  | G5                  | N                    |                         |                      |                   | -3                     |
| <i>Dryopteris intermedia</i>                | Evergreen Wood Fern            | ✓                                 |        |    | S5                  | G5                  | N                    |                         |                      |                   | 0                      |
| <i>Erigeron philadelphicus</i>              | Philadelphia Fleabane          | ✓                                 |        |    | S5                  | G5                  | P                    |                         |                      |                   | -3                     |
| <i>Eurybia macrophylla</i>                  | Large-leaved Aster             |                                   | ✓      |    | S5                  | G5                  | N                    |                         |                      |                   | 5                      |
| <i>Fragaria virginiana</i>                  | Wild Strawberry                |                                   | ✓      |    | S5                  | G5                  | N                    |                         |                      |                   | 3                      |
| <i>Fraxinus pennsylvanica</i>               | Red Ash                        |                                   | ✓      |    | S4                  | G4                  | N                    |                         |                      |                   | -3                     |
| <i>Geranium maculatum</i>                   | Spotted Geranium               |                                   | ✓      |    | S5                  | G5                  | N                    |                         |                      |                   | 3                      |
| <i>Hieracium lachenalii</i>                 | Common Hawkweed                |                                   | ✓      |    | SNA                 | GNR                 | N                    |                         |                      | SE2?              | 5                      |
| <i>Hypericum perforatum</i>                 | Common St. John's-wort         |                                   | ✓      |    | SNA                 | GNR                 | N                    |                         |                      | SE5               | 5                      |
| <i>Impatiens capensis</i>                   | Spotted Jewelweed              |                                   |        | ✓  | S5                  | G5                  | N                    |                         |                      |                   | -3                     |
| <i>Lamium galeobdolon</i>                   | Yellow Archangel               | ✓                                 |        |    | SNA                 | GNR                 | N                    |                         |                      | SE1               | 0                      |
| <i>Leucanthemum vulgare</i>                 | Oxeye Daisy                    |                                   | ✓      |    | SNA                 | GNR                 | N                    |                         |                      | SE5               | 5                      |
| <i>Lonicera dioica</i>                      | Limber Honeysuckle             |                                   | ✓      |    | S5                  | G5                  | N                    |                         |                      |                   | 3                      |
| <i>Maianthemum canadense</i>                | Wild Lily-of-the-valley        |                                   | ✓      |    | S5                  | G5                  | N                    |                         |                      |                   | 3                      |
| <i>Matteuccia struthiopteris</i>            | Ostrich Fern                   | ✓                                 |        |    | S5                  | G5                  | N                    |                         |                      |                   | 0                      |

| Scientific Name                              | Common Name                  | Vegetation Community <sup>A</sup> |        |    | S-Rank <sup>B</sup> | G-Rank <sup>C</sup> | Provincially Tracked | Species at Risk Status  |                      | Non-native Status | Coefficient of Wetness |
|--|------------------------------|-----------------------------------|--------|----|---------------------|---------------------|----------------------|-------------------------|----------------------|-------------------|------------------------|
|  |                              | CVR_3                             | FOM2-2 | OA |                     |                     |                      | Provincial <sup>D</sup> | Federal <sup>E</sup> |                   |                        |
| <i>Melilotus officinalis</i>                 | Yellow Sweet-clover          | ✓                                 |        |    | SNA                 | GNR                 | N                    |                         |                      | SE5               | 3                      |
| <i>Myosotis sylvatica</i>                    | Woodland Forget-me-not       |                                   | ✓      |    | SNA                 | G5                  | N                    |                         |                      | SE4               | 5                      |
| <i>Myriophyllum spicatum</i>                 | Eurasian Water-milfoil       |                                   |        | ✓  | SNA                 | GNR                 | N                    |                         |                      | SE5               | -5                     |
| <i>Oryzopsis asperifolia</i>                 | Rough-leaved Mountain Rice   | ✓                                 |        |    | S5                  | G5                  | N                    |                         |                      |                   | 5                      |
| <i>Oxalis stricta</i>                        | Upright Yellow Wood-sorrel   |                                   | ✓      |    | SNA                 | G5                  | N                    |                         |                      | SE5               | 3                      |
| <i>Picea glauca</i>                          | White Spruce                 | ✓                                 | ✓      |    | S5                  | G5                  | N                    |                         |                      |                   | 3                      |
| <i>Picea pungens</i>                         | Blue Spruce                  | ✓                                 |        |    | SNA                 | G5                  | N                    |                         |                      | SE1               | 3                      |
| <i>Pilosella caespitosa</i>                  | Meadow Hawkweed              |                                   | ✓      |    | SNA                 | GNR                 | N                    |                         |                      | SE5               | 5                      |
| <i>Pinus strobus</i>                         | Eastern White Pine           | ✓                                 | ✓      |    | S5                  | G5                  | N                    |                         |                      |                   | 3                      |
| <i>Pinus sylvestris</i>                      | Scots Pine                   | ✓                                 |        |    | SNA                 | GNR                 | N                    |                         |                      | SE5               | 3                      |
| <i>Plantago major</i>                        | Common Plantain              | ✓                                 |        |    | SNA                 | G5                  | N                    |                         |                      | SE5               | 3                      |
| <i>Poa pratensis</i>                         | Kentucky Bluegrass           |                                   | ✓      |    | S5                  | G5                  | P                    |                         |                      |                   | 3                      |
| <i>Polygonatum multiflorum</i>               | Eurasian Solomon's Seal      | ✓                                 |        |    | SNA                 | GNR                 | N                    |                         |                      | SE1               | 0                      |
| <i>Polygonatum pubescens</i>                 | Hairy Solomon's Seal         |                                   | ✓      |    | S5                  | G5                  | N                    |                         |                      |                   | 5                      |
| <i>Populus grandidentata</i>                 | Large-toothed Aspen          | ✓                                 | ✓      |    | S5                  | G5                  | N                    |                         |                      |                   | 5                      |
| <i>Prunus serotina</i>                       | Black Cherry                 |                                   | ✓      |    | S5                  | G5                  | N                    |                         |                      |                   | 3                      |
| <i>Prunus virginiana</i>                     | Chokecherry                  |                                   | ✓      |    | S5                  | G5                  | N                    |                         |                      |                   | 3                      |
| <i>Pteridium aquilinum</i>                   | Bracken Fern                 |                                   | ✓      |    | S5                  | G5                  | N                    |                         |                      |                   | 3                      |
| <i>Quercus rubra</i>                         | Northern Red Oak             |                                   | ✓      |    | S5                  | G5                  | N                    |                         |                      |                   | 3                      |
| <i>Ranunculus repens</i>                     | Creeping Buttercup           | ✓                                 |        |    | SNA                 | GNR                 | N                    |                         |                      | SE5               | 0                      |
| <i>Rhamnus cathartica</i>                    | European Buckthorn           |                                   | ✓      |    | SNA                 | GNR                 | N                    |                         |                      | SE5               | 0                      |
| <i>Rhus typhina</i>                          | Staghorn Sumac               |                                   | ✓      |    | S5                  | G5                  | N                    |                         |                      |                   | 3                      |
| <i>Ribes cynosbati</i>                       | Eastern Prickly Gooseberry   |                                   | ✓      |    | S5                  | G5                  | N                    |                         |                      |                   | 3                      |
| <i>Rubus idaeus ssp. strigosus</i>           | North American Red Raspberry | ✓                                 |        |    | S5                  | G5T5                | N                    |                         |                      |                   | 3                      |
| <i>Rubus occidentalis</i>                    | Black Raspberry              | ✓                                 |        |    | S5                  | G5                  | N                    |                         |                      |                   | 5                      |
| <i>Rubus odoratus</i>                        | Purple-flowering Raspberry   |                                   | ✓      |    | S5                  | G5                  | N                    |                         |                      |                   | 5                      |
| <i>Sambucus racemosa</i>                     | Red Elderberry               |                                   | ✓      |    | S5                  | G5                  | N                    |                         |                      |                   | 3                      |
| <i>Securigera varia</i>                      | Purple Crown-vetch           | ✓                                 |        |    | SNA                 | GNR                 | N                    |                         |                      | SE5               | 5                      |
| <i>Solidago canadensis</i>                   | Canada Goldenrod             |                                   | ✓      |    | S5                  | G5                  | N                    |                         |                      |                   | 3                      |
| <i>Symphoricarpos albus</i>                  | Thin-leaved Snowberry        |                                   | ✓      |    | S5                  | G5                  | N                    |                         |                      |                   | 3                      |
| <i>Symphyotrichum lateriflorum</i>           | Calico Aster                 |                                   | ✓      |    | S5                  | G5                  | P                    |                         |                      |                   | 0                      |
| <i>Symphyotrichum novae-angliae</i>          | New England Aster            | ✓                                 |        |    | S5                  | G5                  | N                    |                         |                      |                   | -3                     |
| <i>Syringa vulgaris</i>                      | Common Lilac                 | ✓                                 |        |    | SNA                 | GNR                 | N                    |                         |                      | SE5               | 5                      |
| <i>Taraxacum officinale</i>                  | Common Dandelion             |                                   | ✓      |    | SNA                 | G5                  | N                    |                         |                      | SE5               | 3                      |
| <i>Thalictrum dioicum</i>                    | Early Meadow-rue             |                                   | ✓      |    | S5                  | G5                  | N                    |                         |                      |                   | 3                      |
| <i>Thuja occidentalis</i>                    | Eastern White Cedar          | ✓                                 | ✓      |    | S5                  | G5                  | N                    |                         |                      |                   | -3                     |
| <i>Tilia americana</i>                       | Basswood                     |                                   | ✓      |    | S5                  | G5                  | N                    |                         |                      |                   | 3                      |
| <i>Toxicodendron radicans var. rydbergii</i> | Western Poison Ivy           |                                   | ✓      |    | S5                  | G5                  | N                    |                         |                      |                   | 0                      |
| <i>Trifolium pratense</i>                    | Red Clover                   | ✓                                 | ✓      |    | SNA                 | GNR                 | N                    |                         |                      | SE5               | 3                      |
| <i>Trifolium repens</i>                      | White Clover                 | ✓                                 |        |    | SNA                 | GNR                 | N                    |                         |                      | SE5               | 3                      |
| <i>Trillium grandiflorum</i>                 | White Trillium               |                                   | ✓      |    | S5                  | G5                  | N                    |                         |                      |                   | 3                      |

| Scientific Name               | Common Name             | Vegetation Community <sup>A</sup> |        |    | S-Rank <sup>B</sup> | G-Rank <sup>C</sup> | Provincially Tracked | Species at Risk Status  |                      | Non-native Status | Coefficient of Wetness |
|-------------------------------|-------------------------|-----------------------------------|--------|----|---------------------|---------------------|----------------------|-------------------------|----------------------|-------------------|------------------------|
|                               |                         | CVR_3                             | FOM2-2 | OA |                     |                     |                      | Provincial <sup>D</sup> | Federal <sup>E</sup> |                   |                        |
| <i>Tussilago farfara</i>      | Coltsfoot               | ✓                                 |        |    | SNA                 | GNR                 | N                    |                         |                      | SE5               | 3                      |
| <i>Uvularia grandiflora</i>   | Large-Flowered Bellwort |                                   | ✓      |    | S5                  | G5                  | N                    |                         |                      |                   | 5                      |
| <i>Vallisneria americana</i>  | American Eelgrass       |                                   |        | ✓  | S5                  | G5                  | N                    |                         |                      |                   | -5                     |
| <i>Verbascum thapsus</i>      | Common Mullein          | ✓                                 |        |    | SNA                 | GNR                 | N                    |                         |                      | SE5               | 5                      |
| <i>Veronica serpyllifolia</i> | Thyme-leaved Speedwell  | ✓                                 |        |    | SU                  | G5                  | N                    |                         |                      |                   | 0                      |
| <i>Viburnum acerifolium</i>   | Maple-leaved Viburnum   |                                   | ✓      |    | S5                  | G5                  | N                    |                         |                      |                   | 5                      |
| <i>Vicia cracca</i>           | Tufted Vetch            | ✓                                 | ✓      |    | SNA                 | GNR                 | N                    |                         |                      | SE5               | 5                      |
| <i>Vinca minor</i>            | Lesser Periwinkle       | ✓                                 | ✓      |    | SNA                 | GNR                 | N                    |                         |                      | SE5               | 5                      |
| <i>Viola sororia</i>          | Woolly Blue Violet      |                                   | ✓      |    | S5                  | G5                  | N                    |                         |                      |                   | 0                      |

<sup>A</sup>Refer to Figure 2 for Ecological Land Classification descriptors.

<sup>B</sup>Provincial Ranking Status. Definitions of each S-Rank can be found at the following website: [https://caroliniancanada.ca/legacy/SpeciesHabitats\\_SRrank.htm](https://caroliniancanada.ca/legacy/SpeciesHabitats_SRrank.htm).

<sup>C</sup>Global Ranking Status. Definitions of each G-Rank can be found at the following website: [https://caroliniancanada.ca/legacy/SpeciesHabitats\\_GRrank.htm](https://caroliniancanada.ca/legacy/SpeciesHabitats_GRrank.htm).

<sup>D</sup>Species at Risk status as per the O. Reg. 230/08.

<sup>E</sup>Species at Risk status as per the *Species at Risk Act (S.C. 2002, c.29)*.

| Scientific Name                | Common Name              | Point Count Station             |            | Incidental | Location         | Breeding <sup>A</sup> | Non-native? | S-Rank <sup>B</sup> | G-Rank <sup>C</sup> | Species at Risk Status  |                      |
|--------------------------------|--------------------------|---------------------------------|------------|------------|------------------|-----------------------|-------------|---------------------|---------------------|-------------------------|----------------------|
|                                |                          | 1                               |            |            |                  |                       |             |                     |                     | Provincial <sup>D</sup> | Federal <sup>E</sup> |
|                                |                          | 06-06-2025                      | 07-05-2025 |            |                  |                       |             |                     |                     |                         |                      |
| <i>Agelaius phoeniceus</i>     | Red-winged Blackbird     | S <sup>F</sup> (1) <sup>G</sup> |            |            | Adjacent Lands   | Possible              |             | S5                  | G5                  |                         |                      |
| <i>Buteo platypterus</i>       | Broad-winged Hawk        |                                 |            | ✓          | Adjacent Lands   | Possible              |             | S5B                 | G5                  |                         |                      |
| <i>Colaptes auratus</i>        | Northern Flicker         |                                 |            | ✓          | Subject Property | Possible              |             | S5                  | G5                  |                         |                      |
| <i>Contopus virens</i>         | Eastern Wood-pewee       |                                 | S(2)       |            | Adjacent Lands   | Possible              |             | S4B                 | G5                  | SC                      | SC                   |
| <i>Corvus brachyrhynchos</i>   | American Crow            |                                 | S(2)       |            | Adjacent Lands   | Possible              |             | S5                  | G5                  |                         |                      |
| <i>Dryobates pubescens</i>     | Downy Woodpecker         |                                 | S(1)       |            | Adjacent Lands   | Possible              |             | S5                  | G5                  |                         |                      |
| <i>Melanerpes carolinus</i>    | Red-bellied Woodpecker   |                                 | H(1)       |            | Subject Property | Possible              |             | S5                  | G5                  |                         |                      |
| <i>Melospiza melodia</i>       | Song Sparrow             | S(1)                            |            |            | Subject Property | Possible              |             | S5                  | G5                  |                         |                      |
| <i>Mniotilta varia</i>         | Black-and-white Warbler  |                                 |            | ✓          | Adjacent Lands   | Possible              |             | S5B                 | G5                  |                         |                      |
| <i>Pheucticus ludovicianus</i> | Rose-breasted grosbeak   |                                 |            | ✓          | Adjacent Lands   | Possible              |             | S5B                 | G5                  |                         |                      |
| <i>Poecile atricapillus</i>    | Black-capped Chickadee   |                                 | S(1)       |            | Subject Property | Possible              |             | S5                  | G5                  |                         |                      |
| <i>Quiscalus quiscula</i>      | Common Grackle           | S(1)                            |            |            | Subject Property | Possible              |             | S5                  | G5                  |                         |                      |
| <i>Setophaga coronata</i>      | Yellow-rumped Warbler    |                                 |            | ✓          | Subject Property | Possible              |             | S5B,S4N             | G5                  |                         |                      |
| <i>Setophaga pinus</i>         | Pine Warbler             | S(1)                            | T(1)       |            | Subject Property | Probable              |             | S5B,S3N             | G5                  |                         |                      |
| <i>Sphyrapicus varius</i>      | Yellow-bellied Sapsucker |                                 |            | ✓          | Adjacent Lands   | Possible              |             | S5B,S3N             | G5                  |                         |                      |
| <i>Turdus migratorius</i>      | American Robin           | S(1)                            | T(1),S(1)  |            | Subject Property | Probable              |             | S5                  | G5                  |                         |                      |
| <i>Vireo olivaceus</i>         | Red-eyed Vireo           | S(1)                            | T(1)       |            | Subject Property | Probable              |             | S5B                 | G5                  |                         |                      |

<sup>A</sup>Breeding Evidence as per Ontario Breeding Bird Atlas: Guide for Participants (March 2001)

<sup>B</sup>Provincial Ranking Status. Definitions of each S-Rank can be found at the following website: [https://caroliniancanada.ca/legacy/SpeciesHabitats\\_SRrank.htm](https://caroliniancanada.ca/legacy/SpeciesHabitats_SRrank.htm).

<sup>C</sup>Global Ranking Status. Definitions of each G-Rank can be found at the following website: [https://caroliniancanada.ca/legacy/SpeciesHabitats\\_GRrank.htm](https://caroliniancanada.ca/legacy/SpeciesHabitats_GRrank.htm).

<sup>D</sup>Species at Risk status as per the O. Reg. 230/08.

<sup>E</sup>Species at Risk status as per the *Species at Risk Act (S.C. 2002, c.29)*.

<sup>F</sup>Breeding Code as per Ontario Breeding Bird Atlas: Guide for Participants (March 2001)

<sup>G</sup>Number of individuals observed

Table 3: Species at Risk Habitat Assessment

| Species Grouping | Common Name            | Scientific Name                        | Provincial Status <sup>A</sup> | Federal Status <sup>B</sup> | SAR Habitat Assessment  |
|------------------|------------------------|--|--------------------------------|-----------------------------|---|
| Birds            | Bank Swallow           | <i>Riparia riparia</i>                 | Threatened                     | Threatened                  | Absent. No suitable sandy vertical faces associated with the shoreline of Clear Lake identified on the subject property.  |
| Birds            | Barn Swallow           | <i>Hirundo rustica</i>                 | Special Concern                | Threatened                  | Absent. No barn swallows nests identified on the existing structures on the subject property.   |
| Birds            | Black Tern             | <i>Chlidonias niger</i>                | Special Concern                | Not Listed                  | Absent. No suitable wetland habitat for black tern identified on the subject property.  |
| Birds            | Bobolink               | <i>Dolichonyx oryzivorus</i>           | Threatened                     | Threatened                  | Absent. No suitable open habitat for bobolink identified on the subject property.   |
| Birds            | Canada Warbler         | <i>Cardellina canadensis</i>           | Special Concern                | Threatened                  | Absent. Canada warbler was not observed during the dawn breeding bird surveys nor through incidental occurrence.  |
| Birds            | Cerulean Warbler       | <i>Setophaga cerulea</i>               | Threatened                     | Endangered                  | Absent. Cerulean warbler was not observed during the dawn breeding bird surveys nor through incidental occurrence.  |
| Birds            | Chimney Swift          | <i>Chaetura pelagica</i>               | Threatened                     | Threatened                  | Absent. No suitable nesting sites for chimney swift observed on the subject property.   |
| Birds            | Common Nighthawk       | <i>Chordeiles minor</i>                | Special Concern                | Special Concern             | Absent. No recently disturbed open areas for common nighthawk identified on the subject property.   |
| Birds            | Eastern Meadowlark     | <i>Sturnella magna</i>                 | Threatened                     | Threatened                  | Absent. No suitable open habitat for Eastern meadowlark identified on the subject property.   |
| Birds            | Eastern Whip-poor-will | <i>Antrostomus vociferus</i>           | Special Concern                | Threatened                  | Absent. No suitable combination of open and forested areas for Eastern whip-poor-will identified on the subject property.   |
| Birds            | Eastern Wood-Pewee     | <i>Contopus virens</i>                 | Special Concern                | Special Concern             | Absent. Eastern wood-pewee was not observed on the subject property with probable or confirmed breeding evidence.   |
| Birds            | Evening Grosbeak       | <i>Coccothraustes vespertinus</i>      | Special Concern                | Special Concern             | Absent. No suitable forested communities dominated by fir species for evening grosbeak identified on the subject property.  |
| Birds            | Golden-winged Warbler  | <i>Vermivora chrysoptera</i>           | Special Concern                | Threatened                  | Absent. No suitable open or edge habitat for golden-winged warbler identified on the subject property.  |
| Birds            | Grasshopper Sparrow    | <i>Ammodramus savannarum pratensis</i> | Special Concern                | Special Concern             | Absent. No suitable grassland habitat for grasshopper sparrow identified on the subject property.   |
| Birds            | Least Bittern          | <i>Ixobrychus exilis</i>               | Threatened                     | Threatened                  | Absent. No suitable wetland habitat for least bittern identified on the subject property.   |
| Birds            | Loggerhead Shrike      | <i>Lanius ludovicianus</i>             | Endangered                     | Endangered                  | Absent. No suitable grassland habitat for loggerhead shrike identified on the subject property.   |
| Birds            | Olive-sided Flycatcher | <i>Contopus cooperi</i>                | Special Concern                | Special Concern             | Absent. No suitable edge or open habitat for olive-sided flycatcher identified on the subject property.   |
| Birds            | Peregrine Falcon       | <i>Falco peregrinus</i>                | Special Concern                | Not Listed                  | Absent. No suitable cliffs or ledges for peregrine falcon identified on or near the subject property.   |
| Birds            | Red-headed Woodpecker  | <i>Melanerpes erythrocephalus</i>      | Endangered                     | Endangered                  | Absent. No suitable treed habitat with an abundance of dead/dying trees for red-headed woodpecker identified on the subject property. Moreover, no red-headed woodpecker cavities were encountered during Sumac's investigations. |
| Birds            | Short-eared Owl        | <i>Asio flammeus</i>                   | Threatened                     | Special Concern             | Absent. No open grassland habitat for short-eared owl identified on the subject property.   |
| Birds            | Wood Thrush            | <i>Hylocichla mustelina</i>            | Special Concern                | Threatened                  | Absent. Wood thrush was not observed during the dawn breeding bird surveys nor through incidental occurrence.   |

Table 3: Species at Risk Habitat Assessment

| Species Grouping | Common Name   | Scientific Name                  | Provincial Status <sup>A</sup> | Federal Status <sup>B</sup> | SAR Habitat Assessment   |
|------------------|---|----------------------------------|--------------------------------|-----------------------------|--|
| Fishes           | Northern Sunfish (Great Lakes - Upper St. Lawrence populations) | <i>Lepomis peltastes</i>         | Special Concern                | Special Concern             | Absent. No suitable aquatic habitat for Northern sunfish identified on the subject property.   |
| Insects          | Monarch   | <i>Danaus plexippus</i>          | Special Concern                | Endangered                  | Candidate. Monarch breeding may occur in the FOM2-2 community where common milkweed is found. No area with an abundance of favorable nectar sources for monarch identified on the subject property.  |
| Mammals          | Eastern Red Bat   | <i>Lasiurus borealis</i>         | Endangered                     | Not Listed                  | Confirmed. Acoustic monitoring detected Eastern red bat on the subject property. Roosting habitat likely includes the identified significant woodland feature. Foraging habitat likely includes the shoreline and forest edge.   |
| Mammals          | Eastern Small-footed Myotis                                     | <i>Myotis leibii</i>             | Endangered                     | Not Listed                  | Absent. Eastern small-footed myotis was not detected through acoustic monitoring and as such, is not anticipated to use the subject property for roosting or foraging.   |
| Mammals          | Hoary Bat   | <i>Lasiurus cinereus</i>         | Endangered                     | Not Listed                  | Confirmed. Acoustic monitoring detected hoary bat on the subject property. Roosting habitat likely includes the identified significant woodland feature. Foraging habitat likely includes the shoreline and forest edge.   |
| Mammals          | Little Brown Myotis   | <i>Myotis lucifugus</i>          | Endangered                     | Endangered                  | Confirmed. Acoustic monitoring detected little brown myotis on the subject property. Roosting habitat likely includes the identified significant woodland feature, as the existing dwelling did not exhibit notable entry points for bats. Foraging habitat likely includes the shoreline and forest edge. |
| Mammals          | Northern Myotis   | <i>Myotis septentrionalis</i>    | Endangered                     | Endangered                  | Absent. Northern myotis was not detected through acoustic monitoring and as such, is not anticipated to use the subject property for roosting or foraging.   |
| Mammals          | Silver-haired Bat   | <i>Lasionycteris noctivagans</i> | Endangered                     | Not Listed                  | Confirmed. Acoustic monitoring detected silver-haired bat on the subject property. Roosting habitat likely includes the identified significant woodland feature. Foraging habitat likely includes the shoreline and forest edge.   |
| Mammals          | Tri-colored Bat   | <i>Perimyotis subflavus</i>      | Endangered                     | Endangered                  | Absent. Tri-colored bat was not detected through acoustic monitoring and as such, is not anticipated to use the subject property for roosting or foraging.   |
| Reptiles         | Blanding's Turtle   | <i>Emydoidea blandingii</i>      | Threatened                     | Endangered                  | Absent. The Clear Lake shoreline abutting the subject property does not exhibit favorable habitat features to likely function as habitat for Blanding's turtle.  |
| Reptiles         | Eastern Hog-nosed Snake   | <i>Heterodon platirhinos</i>     | Threatened                     | Threatened                  | Absent. Eastern hog-nosed snake are not anticipated to occur on the subject property due to lack of favorable foraging habitat (e.g., amphibian breeding habitat for American toad) anticipated on or near the subeject property.  |
| Reptiles         | Eastern Musk Turtle   | <i>Sternotherus odoratus</i>     | Special Concern                | Special Concern             | Absent. No suitable aquatic habitat for Eastern musk turtle identified on the subject property.  |
| Reptiles         | Northern Map Turtle   | <i>Graptemys geographica</i>     | Special Concern                | Special Concern             | Candidate. Northern map turtle may utilize the rocky shoreline of Clear Lake for basking, should this species be present. No high quality turtle nesting habitat identified on the subject property.   |
| Reptiles         | Snapping Turtle   | <i>Chelydra serpentina</i>       | Special Concern                | Special Concern             | Absent. No suitable shallow aquatic habitat for sanpping turtle identified on the subject property.  |
| Vascular Plants  | Black Ash   | <i>Fraxinus nigra</i>            | Endangered                     | Not Listed                  | Absent. No black ash encountered on the subject property.  |

| Species Grouping | Common Name | Scientific Name        | Provincial Status <sup>A</sup> | Federal Status <sup>B</sup> | SAR Habitat Assessment                                    |
|------------------|-------------|------------------------|--------------------------------|-----------------------------|---|
| Vascular Plants  | Butternut   | <i>Juglans cinerea</i> | Endangered                     | Endangered                  | Absent. No butternut encountered on the subject property. |

<sup>A</sup>Classification of species as they appear on O. Reg. 230/08 Species at Risk Ontario list (consolidation period: January 27, 2025).

<sup>B</sup>Classification of species as they appear on Schedule 1 of the Species at Risk Act (consolidation period: February 17, 2025).

## **List of Appendices**

Appendix A: ORCA Regulated Areas Mapping

Appendix B: Natural Heritage Areas Mapping

## **Appendix A: ORCA Regulated Areas Mapping**

Assessment Parcel



Notes:

Enter map notes



Absence of a feature in the map does not mean they do not exist in this area.

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Legend

-  Assessment Parcel
- ANSI
  -  Earth Science Provincially Significant/sciences de la terre d'importance provinciale
  -  Earth Science Regionally Significant/sciences de la terre d'importance régionale
  -  Life Science Provincially Significant/sciences de la vie d'importance provinciale
  -  Life Science Regionally Significant/sciences de la vie d'importance régionale



Notes:  
Enter map notes



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## **Appendix B: Natural Heritage Areas Mapping**

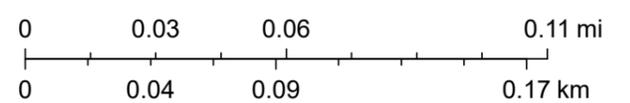
# ORCA Regulated Areas



9/11/2025, 10:47:02 AM

 Regulated Area

1:3,355



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