Appendix D – Species at Risk

Species Name	Status under Ontario Endangered Species Act, 2007 ¹	Status under federal Species at Risk Act (SARA) ²	Source	Comments
American Eel Anguille d'Amérique (<i>Anguilla rostrata</i>)	Endangered* (status reconfirmed by COSSARO ³ in January 2013)	Under consideration for addition to Schedule 1; listed as threatened by COSEWIC ⁴ in May 2012	NHIC⁵, 2019 McIntosh Perry, 2016	Primarily nocturnal, hiding in soft substrate or submerged vegetation during the day. Also protected under <i>Fisheries Act</i> . Found in the Ottawa River and is potentially located in Beckett's Creek near the confluence.
Bank Swallow Hirondelle de rivage (<i>Riparia riparia</i>)	Threatened (June 2014)* Government response issued April 2017; habitat regulations deferred as of June 2017	Threatened (Schedule 1) November 2017	NHIC, 2019 BSC ⁶ , 2006	Colonial nester; burrows in eroding silt or sand banks, sand pit walls, etc. Individuals and nests also protected under federal <i>Migratory Birds</i> <i>Convention Act</i> . Confirmed nesting in study area during 2001-2005 OBBA ⁷ .
Barn Swallow Hirondelle rustique (<i>Hirundo rustica</i>)	Threatened (Jan. 2012); to be downlisted to Special Concern by January 25, 2023. Recovery strategy issued August 2014; government response May 2015	Threatened (Schedule 1) November 2017 In consultation for downlisting to SC, based on COSEWIC report in May 2021.	NHIC, 2019 BSC, 2006	Nests on barns and other structures; forages in open areas for flying insects. Individuals and nests also protected under federal <i>Migratory Birds</i> <i>Convention Act</i> . Confirmed nesting in several parts of study area during 2001-2005 OBBA.
Black Ash Frêne noir (<i>Fraxinus nigra</i>)	Endangered as of January 26, 2022; protection deferred.	Under consideration for addition to Schedule 1; assessed as Threatened by COSEWIC in November 2018		Endangered due to impacts of introduced Emerald Ash Borer beetle. Found in wetlands, flood plains and moist woodlands.
Black Tern Guifette noire (<i>Chlidonias niger</i>)	Special Concern	None (not at risk nationally)	NHIC, 2019 BSC, 2006	Breeds in loose colonies in marshes. Individuals and nests also protected under federal <i>Migratory</i> <i>Birds Convention Act</i> . Historic records associated with Baie Lafontaine and the Ottawa River shoreline; confirmed nesting in western part of study area during 2001-2005 OBBA.
Blanding's Turtle Tortue mouchetée (<i>Emydoidea blandingii</i>)	Threatened* (Reconfirmed August 2018)	Endangered (Schedule 1) as of September 2021.	MNRF, 2016 Ontario Nature, 2016	Inhabits quiet lakes, streams and wetlands with abundant emergent vegetation; frequently occurs in adjacent upland forests. Individuals (including eggs) also protected in Ontario under <i>Fish and</i> <i>Wildlife Conservation Act</i> .

Appendix D: Species at Risk Reported from the Vicinity of the Beckett's Creek Subwatershed Study Area

Species Name	Status under Ontario Endangered Species Act, 2007 ¹	Status under federal Species at Risk Act (SARA) ²	Source	Comments
	Recovery strategy December 2019	COSEWIC November 2016 Recovery strategy December 2018		Observed near the study area in 2007 and 2008.
Bobolink Goglu des prés (<i>Dolichonyx oryzivorus</i>)	Threatened (September 2010) Recovery strategy issued June 2013; draft government response September 2015	Threatened (Schedule 1) November 2017	NHIC, 2019 BSC, 2006	 Nests in hayfields, pastures and old fields with tall grass. Individuals and nests also protected under federal <i>Migratory Birds Convention Act</i>. Observed in various parts of the study area including Cumberland (2005) and near the Beckett's Creek Bird Sanctuary (2004). Confirmed nesting in study area during 2001-2005 OBBA.
Butternut Noyer cendré (<i>Juglans cinerea</i>)	Endangered (Reconfirmed August 2018)	Endangered (Schedule 1); final recovery strategy issued in 2010	NHIC, 2019	Endangered due to fungal disease. Habitat (upland woods, hedgerows) not a limiting factor. Historical records in many parts of the study area; recent records near the Cumberland area in Catchment C.
Canada Warbler Paruline du Canada (<i>Cardellina canadensis</i>)	Special Concern (September 2009); reconfirmed 2021.	Threatened (Schedule 1) February 2010 Final recovery strategy March 2016. Reassessed as Special Concern by COSEWIC in November 2020.	BSC, 2006	Prefers wet forests with dense shrub layers. Individuals and nests also protected under federal <i>Migratory Birds Convention Act</i> . One possible nest in western part of study area during 2001-2005 OBBA.
Channel Darter Fouille-roche gris (<i>Percina copelandi</i>)	Special Concern (August 2018)	Special Concern (Schedule 1) August 2019	NHIC, 2019	Prefers areas with moderate current over sandy or rocky substrate. Also protected under <i>Fisheries</i> <i>Act</i> . Captured by DFO staff in Ottawa River at several locations downstream of Gatineau River in 2011.
Chimney Swift Martinet ramoneur (<i>Chaetura pelagica</i>)	Threatened (September 2009) General habitat description published July 2013.	Threatened (Schedule 1) Draft recovery strategy March 2015.	BSC, 2006	Nests in traditional-style open brick chimneys (and rarely in hollow trees). Suitable habitat present in study area (e.g., older houses in villages and rural areas).

Species Name	Status under Ontario Endangered Species Act, 2007 ¹	Status under federal <i>Species at</i> <i>Risk Act</i> (SARA) ²	Source	Comments
Common Nighthawk Engoulevent d'Amérique (<i>Chordeiles minor</i>)	Special Concern (September 2009)	Threatened (Schedule 1) March 2010. Decision pending for downlisting to Special Concern	NHIC, 2019	Nests in a wide variety of open sites, including beaches, fields and gravel rooftops. Individuals and nests also protected under federal SARA and <i>Migratory Birds Convention Act</i> .
Eastern Meadowlark Sturnelle des prés (<i>Sturnella magna</i>)	Threatened (January 2012) Recovery strategy issued June 2013; government response December 2015. General habitat description published July 2013.	Threatened (Schedule 1) as of November 2017	NHIC, 2019 BSC, 2006	Nests in hayfields, pastures and old fields with tall grass. Individuals and nests also protected under federal <i>Migratory Birds Convention Act</i> . Confirmed nesting in study area during 2001-2005 OBBA. Observed near Baie Lafontaine (2004, 2007), Beckett's Creek Bird Sanctuary and in western part of study area (2002, 2005).
Eastern Small-footed Myotis (bat) Chauve-souris pygmée de l'Est (<i>Myotis leibii</i>)	Endangered (June 2014)* Recovery strategy issued June 2017; draft government response November 2017.	None	MNRF, 2016	Smallest bat in eastern North America. Rare throughout its range. Roosts in rock crevices, barns and sheds. Overwinters in caves and abandoned mines. Individuals also protected in Ontario under <i>Fish and Wildlife Conservation Act</i> .
Eastern Wood-pewee Pioui de l'Est (<i>Contopus virens</i>)	Special Concern (June 2014)	Special Concern (Schedule 1) as of November 2017	NHIC, 2019 BSC, 2006	 Woodland species, often found near clearings and edges. Individuals and nests also protected under federal <i>Migratory Birds Convention Act</i>. Observed in various parts of the study area including the Ottawa River shoreline. Probable and confirmed nesting in study area during 2001-2005 OBBA.
Henslow's Sparrow Bruant de Henslow (<i>Ammodramus henslowii</i>)	Endangered (status reconfirmed in June 2011). Recovery strategy March 2015; government	Endangered (Schedule 1); reconfirmed in May 2011. Recovery strategy issued in 2010.	NHIC, 2019	Prefers open, moist tallgrass fields. Individuals and nests also protected under federal <i>Migratory Birds</i> <i>Convention Act</i> . Historical record in vicinity of study area.

Species Name	Status under Ontario Endangered Species Act, 2007 ¹	Status under federal Species at Risk Act (SARA) ²	Source	Comments
	response March 2016.			
Lake Sturgeon Esturgeon jaune (<i>Acipenser fulvescens</i>)	Endangered (August 2018) Final recovery strategy issued in 2011. Habitat regulation deferred.	Under consideration for addition to Schedule 1; listed as threatened by COSEWIC in November 2006 (reconfirmed 2017).	NHIC, 2019	Only found in large lakes and rivers. Forages in cool water, 4-9 m deep over soft substrate; spawns in shallower, fast-flowing areas over rocks or gravel. Also protected under <i>Fisheries Act</i> . Found in the Ottawa River immediately adjacent to the study area (2009).
Little Brown Myotis (bat) Petite chauve-souris brune (<i>Myotis lucifugus</i>)	Endangered January 2013* Recovery strategy December 2019	Endangered (Schedule 1) December 2014 Recovery strategy issued December 2018	MNRF, 2016	Maternal colonies known to use buildings; may also roost in trees during summer. Colonies overwinter in caves and abandoned mines. Individuals also protected in Ontario under <i>Fish and Wildlife</i> <i>Conservation Act.</i>
Midland Painted Turtle Tortue peinte (<i>Chrysemys picta marginata</i>)	Not at Risk (September 2020)	Special Concern (Schedule 1) as of May 2021.	City Stream Watch, 2017	Lakes, ponds, wetlands and slow-moving streams with aquatic vegetation and soft substrate. Individuals (including eggs) also protected in Ontario under <i>Fish and Wildlife Conservation Act</i> . Observed basking on logs along Beckett's Creek.
Milksnake Couleuvre tachetée (<i>Lampropeltis triangulum</i>)	Not at Risk (June 2016)	Special Concern (Schedule 1) Management plan issued July 2015	MNRF, 2016	Found in variety of open, scrubby or edge habitats, including pastures. Individuals (including eggs) also protected in Ontario under <i>Fish and Wildlife</i> <i>Conservation Act.</i>
Monarch butterfly Monarque (<i>Danaus plexippus</i>)	Special Concern (reconfirmed March 2010)	Special Concern (Schedule 1); uplisted to Endangered by COSEWIC November 2016. In consultation for uplisting on Schedule 1.	Observed (see Appendix B, photo 45)	Risk factors include threats to colonial wintering sites in Mexico, pest control (insecticides and weed control of host milkweed) and threats to migration staging areas. Individuals also protected in Ontario under <i>Fish and Wildlife Conservation Act</i> .
Northern Brook Lamprey Lamproie du Nord (<i>Ichthyomyzon fossor</i>)	Special Concern (reconfirmed 2021)	Special Concern (Schedule 1) for Great Lakes-Upper St. Lawrence population. Management plan issued in July 2018.	NHIC, 2019	Non-parasitic species; prefers shallow areas with warm water. Larvae live in burrows in soft substrate for up to 7 years. Also protected under <i>Fisheries</i> <i>Act</i> . Found in the Ottawa River and is potentially located in Beckett's Creek near the confluence.

Species Name	Status under Ontario Endangered Species Act, 2007 ¹	Status under federal Species at Risk Act (SARA) ²	Source	Comments
Northern Map Turtle Tortue géographique (<i>Graptemys geographica</i>)	Special Concern Status reconfirmed by COSSARO in January 2013.	Special Concern (Schedule 1) – status confirmed by COSEWIC in November 2012. Draft management plan issued March 2016.	ORAA ⁸ , 2016	 Highly aquatic species found only in lakes and large rivers. Individuals (including eggs) also protected in Ontario under <i>Fish and Wildlife Conservation Act</i>. Known to occur at Petrie Island, upstream of the study area; could occur in the Baie Lafontaine Islands or elsewhere along the Ottawa River shoreline.
Olive-sided Flycatcher Moucherolle à côtés olive (<i>Contopus cooperi</i>)	Special Concern (September 2009)	Threatened (Schedule 1) March 2010. Decision pending for downlisting to Special Concern	NESS ⁹ , 1996	Forest edge species; forages in open areas from high vantage points in trees. Individuals and nests also protected under federal <i>Migratory Birds</i> <i>Convention Act</i> . Nest reported in NESS report from 1996.
Short-eared Owl Hibou des marais (<i>Asio flammeus</i>)	Threatened as of January 15, 2023. Formerly Special Concern	Special Concern (Schedule 1); in consultation for uplisting to Threatened.	NHIC, 2019 BSC, 2006	 Ground-nester; prefers open habitats such as fields and marshes. Individuals and nests protected in Ontario under <i>Fish and Wildlife Conservation Act</i>. Confirmed nesting near western part of study area during 2001-2005 OBBA.
Silver Lamprey Lamproie argentée (<i>Ichthyomyzon unicupis</i>)	Special Concern as of January 2013 (reconfirmed 2021)	Special Concern (Schedule 1) August 2019	NHIC, 2019	Larvae live 4-7 years in burrows (prefer soft substrates); filter-feed on plankton. Adults live less than two years; parasitic on large fish. Also protected under <i>Fisheries Act</i> . Found in the Ottawa River and is potentially located in Beckett's Creek near the confluence.
Snapping Turtle Tortue serpentine (<i>Chelydra serpentina</i>)	Special Concern (September 2009)	Special Concern (Schedule 1) February 2011. Draft management plan issued March 2016.	NHIC, 2019 ORAA, 2016	 Highly aquatic species found in a wide variety of wetlands, water bodies and watercourses. Listed as a game reptile under <i>Fish and Wildlife Conservation Act</i>. Observed in the Baie Lafontaine wetlands and Beckett's Creek Bird Sanctuary; may be present in other watercourses or wetlands within the study area.
Western Chorus Frog Rainette faux-grillon de l'ouest (<i>Pseudacris triseriata</i>)	Not at Risk (2009)	Threatened (Schedule 1) February 2010 Recovery strategy issued December 2015. Protected on federal lands only at this time.	ORAA, 2016	Requires vernal (non-permanent) pools for breeding. Short-lived and highly sensitive to habitat loss.

Species Name	Status under Ontario Endangered Species Act, 2007 ¹	Status under federal Species at Risk Act (SARA) ²	Source	Comments
				Observed in the vicinity of the study area in 2007. NOTE: under SARA, Government of Canada may extend protection to private lands if provincial protection is deemed insufficient. This has not been ordered in Ontario to date.
Wood Thrush Grive des bois (<i>Hylocichla mustelina</i>)	Special Concern (June 2014)	Threatened (Schedule 1) November 2017	NHIC, 2019	Deciduous or mixed woodlands; susceptible to habitat fragmentation and nest parasitism by cowbirds. Individuals and nests also protected under federal <i>Migratory Birds Convention Act</i> . Probable nesting in eastern part of study area during 2001-2005 OBBA.

* Indicates a species that is subject to the transition regulations under the Endangered Species Act, 2007 (i.e., species which were listed for the first time when the Act was adopted in 2007, but which did not receive habitat protection until June 30, 2013; or species which were listed for the first time in January 2013 or later, unless specifically excluded from transitional status).

Notes:

- Under the provincial Endangered Species Act, 2007, endangered and threatened species and their habitat are protected. Species of special concern and their habitat are not protected under the ESA but may be protected under other laws as identified in the "Comments" column; habitat for species of special concern may also be considered significant wildlife habitat under the Provincial Policy Statement. Recovery strategies must be developed by the MECP for all endangered and threatened species. The Ministry must also develop management plans for species of special concern (unless a federal recovery strategy or management plan has already been developed for the species under SARA).
- 2. The federal Species at Risk Act applies only to species listed on Schedule 1 (Schedules 2 and 3 list species awaiting reassessment by COSEWIC, which will then be promoted to Schedule 1 if they are determined to still be at risk). Endangered and threatened species on Schedule 1, and their residences, are protected. This protection only extends to federal lands, except in the case of migratory birds or aquatic species, which are protected throughout Canada. Protection for other listed species may be extended to non-federal lands by the government if the species is not deemed to be adequately protected by the laws of the province or territory. The government must prepare recovery strategies for endangered and threatened species, which identify areas of critical habitat protection under the Act. Management plans must be developed for species of special concern.
- 3. COSSARO = Committee on the Status of Species at Risk in Ontario.
- 4. COSEWIC = Committee on the Status of Endangered Wildlife in Canada.
- 5. NHIC = Natural Heritage Information Centre, the provincial repository for rare species occurrence data and other natural heritage information.
- 6. BSC = Bird Studies Canada.
- 7. OBBA = Ontario Breeding Bird Atlas. The Atlas is a multi-year survey undertaken by trained volunteers across Ontario to determine the distribution of breeding birds in the province. The most recent Atlas survey was undertaken in 2001-2005 (BSC, 2006).
- 8. ORAA = Ontario Nature Reptile and Amphibian Atlas.
- 9. NESS = Natural Environment System Strategy. A systematic assessment of natural areas undertaken for the former Regional Municipality of Ottawa-Carleton in 1996.

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