Appendix E

RARE SPECIES AND HABITAT SUITABILITY DATA AND MAPPING

Appendix E-1

Rare Species and Habitat Suitability Mapping

PROJECT: DA21-086-01

CLIENT: District of Muskoka

DATE: 16, December 2022

DRAWN BY: J. Lacsamana / J. Sauder



Map 5-1: Blanding's Turtle Habitat Suitability

Muskoka River Watershed IWM - Natural Capital Inventory

Habitat Suitability

- 0 - Least Suitable
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 - Most Suitable

Quaternary Watersheds

0 3,500 7,000 14,000

Metres

1:380,000

North American 1983 CSRS UTM Zone 17N

Basemap Source: Province of Ontario, Esri Canada, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, NRCan, Parks Canada

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DATE: 16, December 2022

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Map 5-2: Common Five-lined Skink Habitat Suitability

Muskoka River Watershed IWM - Natural Capital Inventory

Habitat Suitability

- 0 - Least Suitable
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 - Most Suitable

Quaternary Watersheds

0 3,500 7,000 14,000

Metres

1:380,000

North American 1983 CSRS UTM Zone 17N

Basemap Source: Province of Ontario, Esri Canada, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, NRCan, Parks Canada

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Map 5-3: Eastern Hog-nosed Snake Habitat Suitability

Muskoka River Watershed IWM - Natural Capital Inventory

Habitat Suitability

- 0 - Least Suitable
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 - Most Suitable

Quaternary Watersheds

Blackstone Harbour
Moon River Bay
Lake Rosseau
Lake Vernon
Little East River - Big East River
Distress Pond - Big East River
Tea Lake - Oxtongue River
Oxtongue River Outlet
North Branch Muskoka River
Baysville Narrows - South Branch Muskoka River
Hollow River
Musquash River
Lake Muskoka - Muskoka River
South Branch Muskoka River Outlet

Parry Sound
Seguin River
The Massasauga Provincial Park
Muskoka
Sage Creek
Bigwind Lake Provincial Park
Haliburton
567 m
671 m

0 3,500 7,000 14,000
Metres
1:380,000

North American 1983 CSRS UTM Zone 17N

Basemap Source: Province of Ontario, Esri Canada, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, NRCan, Parks Canada

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DATE: 16, December 2022

DRAWN BY: J. Lacsamana / J. Sauder

Map 5-4: Eastern Ribbonsnake Habitat Suitability

Muskoka River Watershed IWM - Natural Capital Inventory



Habitat Suitability

- 0 - Least Suitable
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 - Most Suitable

Quaternary Watersheds

0 3,500 7,000 14,000

Metres

1:380,000

North American 1983 CSRS UTM Zone 17N

Basemap Source: Province of Ontario, Esri Canada, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, NRCan, Parks Canada

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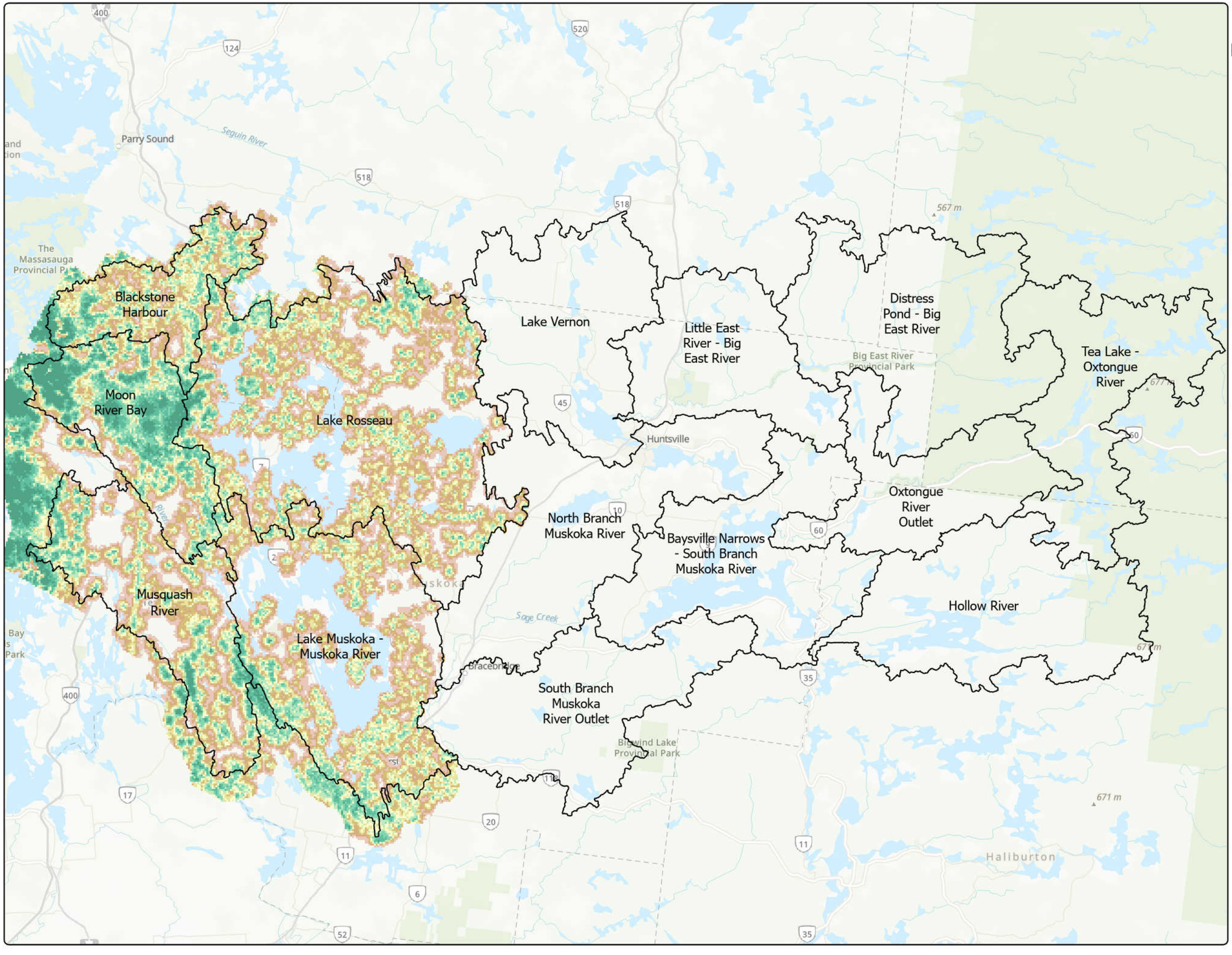
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Map 5-5: Massasauga Rattlesnake Habitat Suitability

Muskoka River Watershed IWM - Natural Capital Inventory

Habitat Suitability

- 0 - Least Suitable
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 - Most Suitable

Quaternary Watersheds

0 3,500 7,000 14,000

Metres

1:380,000

North American 1983 CSRS UTM Zone 17N

Basemap Source: Province of Ontario, Esri Canada, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, NRCan, Parks Canada

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Map 5-6: Monarch Habitat Suitability

Muskoka River Watershed IWM - Natural Capital Inventory

Habitat Suitability

- 0 - Least Suitable
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 - Most Suitable

Quaternary Watersheds

0 3,500 7,000 14,000

Metres

1:380,000

North American 1983 CSRS UTM Zone 17N

Basemap Source: Province of Ontario, Esri Canada, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, NRCan, Parks Canada

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Map 5-7: Spotted Turtle Habitat Suitability

Muskoka River Watershed IWM - Natural Capital Inventory

Habitat Suitability

- 0 - Least Suitable
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 - Most Suitable

Quaternary Watersheds

Blackstone Harbour
Moon River Bay
Musquash River
Lake Rosseau
Lake Muskoka - Muskoka River
Lake Vernon
Little East River - Big East River
North Branch Muskoka River
South Branch Muskoka River Outlet
Baysville Narrows - South Branch Muskoka River
Distress Pond - Big East River
Oxtongue River Outlet
Hollow River
Tea Lake - Oxtongue River

0 3,500 7,000 14,000
Metres

1:380,000

North American 1983 CSRS UTM Zone 17N

Basemap Source: Province of Ontario, Esri Canada, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, NRCan, Parks Canada

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Map 5-8 : Wood Thrush Habitat Suitability

Muskoka River Watershed IWM - Natural Capital Inventory

Habitat Suitability

- 0 - Least Suitable
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 - Most Suitable

Quaternary Watersheds

Blackstone Harbour
Moon River Bay
Lake Rosseau
Lake Vernon
Little East River - Big East River
Distress Pond - Big East River
Tea Lake - Oxtongue River
Oxtongue River Outlet
North Branch Muskoka River
Baysville Narrows - South Branch Muskoka River
Hollow River
Musquash River
Lake Muskoka - Muskoka River
South Branch Muskoka River Outlet

Parry Sound
Seguin River
The Massasauga Provincial P
Haliburton
567 m
671 m

0 3,500 7,000 14,000
Metres

1:380,000

North American 1983 CSRS UTM Zone 17N

Basemap Source: Province of Ontario, Esri Canada, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, NRCan, Parks Canada

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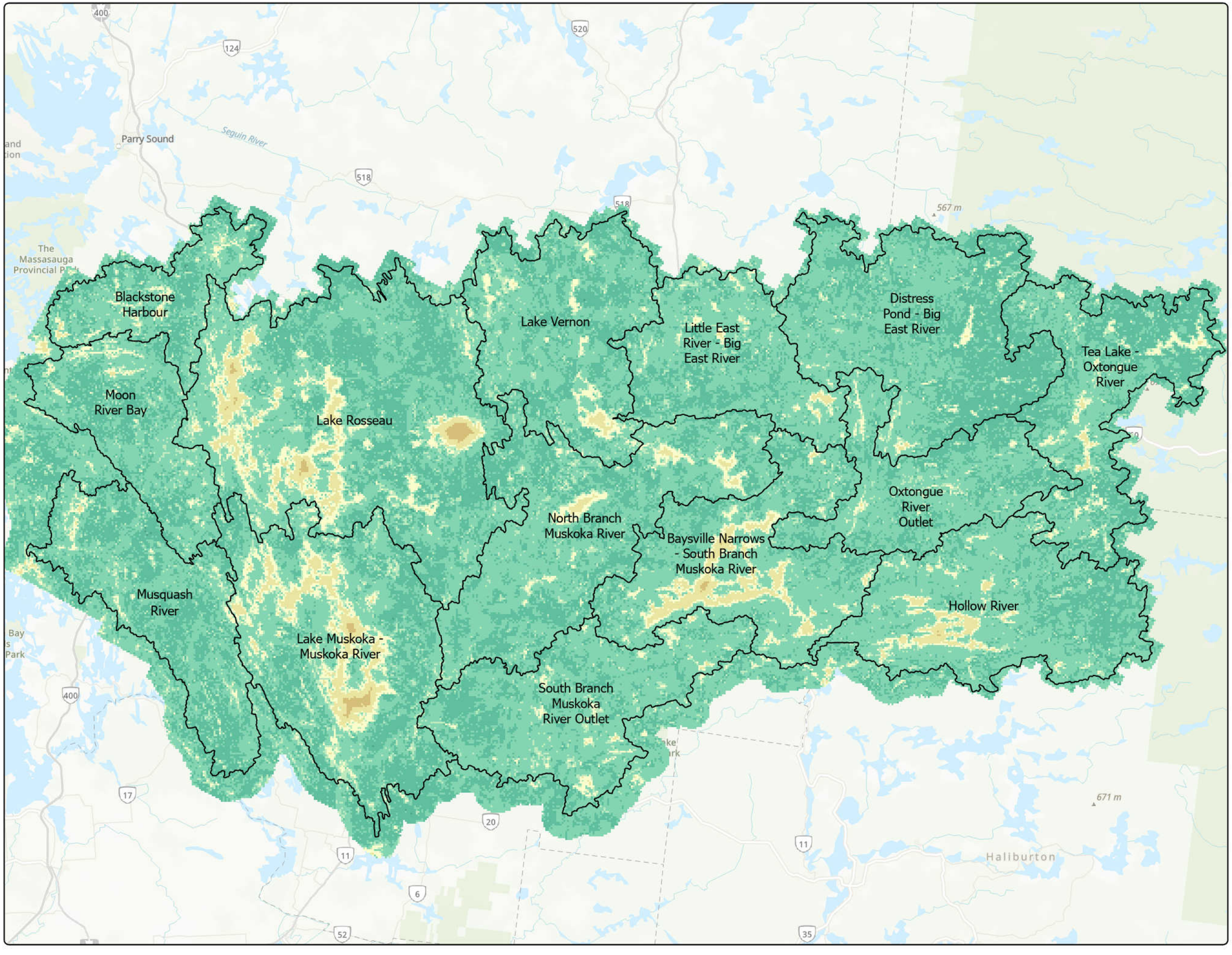
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Map 5-9: Little Brown Myotis Habitat Suitability

Muskoka River Watershed IWM - Natural Capital Inventory

Habitat Suitability

- 0 - Least Suitable
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 - Most Suitable

Quaternary Watersheds

0 3,500 7,000 14,000

Metres

1:380,000

North American 1983 CSRS UTM Zone 17N

Basemap Source: Province of Ontario, Esri Canada, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, NRCan, Parks Canada

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Appendix E-2

Rare Species List

Appendix E2. Rare species documented in the Muskoka River Watershed

Species Group	Scientific Name[1]	Common Name[1]	G-Rank[2]	Federal Status (SARA Schedule 1)[3]	Provincial Status (O.Reg. 230/08)[4]	S-Rank[5]
BEES	*Bombus pensylvanicus*	American Bumble Bee	G3G4	---	---	S3S4
BEES	*Bombus terricola*	Yellow-banded Bumble Bee	G3G4	---	SC	S3S5
BIRDS	*Ammodramus savannarum*	Grasshopper Sparrow	G5 (1996-12-04)	SC	SC	S4B
BIRDS	*Antrostomus vociferus*	Eastern Whip-poor-will	G5 (1996-12-02)	THR	THR	S4B
BIRDS	*Aquila chrysaetos*	Golden Eagle	G5 (1996-11-22)	---	END	S2B
BIRDS	*Ardea alba*	Great Egret	G5 (1996-11-20)	---	---	S2B
BIRDS	*Asio flammeus*	Short-eared Owl	G5 (1996-11-27)	SC	SC	S2N
BIRDS	*Aythya americana*	Redhead	G5 (1996-11-21)	---	---	S2B
BIRDS	*Aythya valisineria*	Canvasback	G5 (1996-11-21)	---	---	S1B
BIRDS	*Buteo lagopus*	Rough-legged Hawk	G5 (1996-11-22)	---	NAR	S1B
BIRDS	*Calcarius lapponicus*	Lapland Longspur	G5 (1996-12-04)	---	---	S3B
BIRDS	*Calidris canutus*	Red Knot	G4	END	END	S1N
BIRDS	*Calidris pusilla*	Semipalmated Sandpiper	G5 (1996-11-26)	---	---	S3B
BIRDS	*Calidris subruficollis*	Buff-breasted Sandpiper	G4 (1996-11-26)	SC	DD	SNA
BIRDS	*Cardellina canadensis*	Canada Warbler	G5 (1996-12-03)	THR	SC	S4B
BIRDS	*Centronyx henslowii*	Henslow's Sparrow	G4 (1996-12-04)	END	END	---
BIRDS	*Chaetura pelagica*	Chimney Swift	G5 (1996-12-02)	THR	THR	S4B
BIRDS	*Chlidonias niger*	Black Tern	G4 (1996-11-27)	---	SC	S3B
BIRDS	*Chordeiles minor*	Common Nighthawk	G5 (1996-12-02)	THR	SC	S4B
BIRDS	*Clangula hyemalis*	Long-tailed Duck	G5 (1996-11-21)	---	---	S3B
BIRDS	*Contopus cooperi*	Olive-sided Flycatcher	G4 (2002-11-21)	THR	SC	S4B
BIRDS	*Contopus virens*	Eastern Wood-Pewee	G5 (1996-12-02)	SC	SC	S4B
BIRDS	*Coturnicops noveboracensis*	Yellow Rail	G4 (1996-11-25)	SC	SC	S4B
BIRDS	*Dolichonyx oryzivorus*	Bobolink	G5 (1996-12-04)	THR	THR	S4B
BIRDS	*Euphagus carolinus*	Rusty Blackbird	G5 (1996-12-04)	SC	---	S4B
BIRDS	*Falco peregrinus*	Peregrine Falcon	G4	SC	SC	S3B
BIRDS	*Gavia stellata*	Red-throated Loon	G5 (1996-11-20)	---	---	S1N
BIRDS	*Haliaeetus leucocephalus*	Bald Eagle	G5	---	SC	S2N
BIRDS	*Hirundo rustica*	Barn Swallow	G5 (1996-12-02)	THR	THR	S4B
BIRDS	*Histrionicus histrionicus*	Harlequin Duck	G4 (1996-11-21)	SC	---	SNA
BIRDS	*Hydroprogne caspia*	Caspian Tern	G5 (1996-11-27)	---	NAR	S3B
BIRDS	*Hylocichla mustelina*	Wood Thrush	G5 (1996-12-03)	THR	SC	S4B
BIRDS	*Ixobrychus exilis*	Least Bittern	G5 (1996-11-20)	THR	THR	S4B
BIRDS	*Larus marinus*	Great Black-backed Gull	G5 (1996-11-27)	---	---	S2B
BIRDS	*Limnodromus griseus*	Short-billed Dowitcher	G5 (1996-11-26)	---	---	S3B
BIRDS	*Limosa fedoa*	Marbled Godwit	G5 (1996-11-25)	---	---	S3B
BIRDS	*Limosa haemastica*	Hudsonian Godwit	G4 (1996-11-25)	---	---	S3B
BIRDS	*Melanerpes erythrocephalus*	Red-headed Woodpecker	G5 (1996-12-02)	END	SC	S4B
BIRDS	*Numenius phaeopus*	Whimbrel	G5 (1996-11-25)	---	---	S3B
BIRDS	*Nycticorax nycticorax*	Black-crowned Night-Heron	G5 (1996-11-20)	---	---	S3B
BIRDS	*Pagophila eburnea*	Ivory Gull	G4	END	---	SNA
BIRDS	*Pelecanus erythrorhynchos*	American White Pelican	G4	---	THR	S2B
BIRDS	*Phalaropus lobatus*	Red-necked Phalarope	G4G5 (2002-11-21)	SC	SC	S3S4B

Appendix E2. Rare species documented in the Muskoka River Watershed

Species Group	Scientific Name[1]	Common Name[1]	G-Rank[2]	Federal Status (SARA Schedule 1)[3]	Provincial Status (O.Reg. 230/08)[4]	S-Rank[5]
BIRDS	*Phalaropus tricolor*	Wilson's Phalarope	G5 (1996-11-26)	---	---	S3B
BIRDS	*Pica hudsonia*	Black-billed Magpie	G5 (1996-12-02)	---	---	S3?
BIRDS	*Pluvialis dominica*	American Golden-Plover	G5 (1996-11-25)	---	---	S2B
BIRDS	*Podiceps auritus*	Horned Grebe	G5 (1996-11-20)	SC	SC	S1B
BIRDS	*Podiceps grisegena*	Red-necked Grebe	G5 (1996-11-20)	---	NAR	S3B
BIRDS	*Progne subis*	Purple Martin	G5 (1996-12-02)	---	---	S3S4B
BIRDS	*Riparia riparia*	Bank Swallow	G5 (1996-12-02)	THR	THR	S4B
BIRDS	*Setophaga cerulea*	Cerulean Warbler	G4 (1996-12-03)	END	THR	S3B
BIRDS	*Setophaga discolor*	Prairie Warbler	G5 (1996-12-03)	---	NAR	S3B
BIRDS	*Sterna forsteri*	Forster's Tern	G5 (1996-11-27)	---	DD	S2B
BIRDS	*Sturnella magna*	Eastern Meadowlark	G5 (1996-12-04)	THR	THR	S4B
BIRDS	*Sturnella neglecta*	Western Meadowlark	G5 (1996-12-04)	---	---	S3B
BIRDS	*Tyrannus verticalis*	Western Kingbird	G5 (1996-12-02)	---	---	S1B
BIRDS	*Vermivora chrysoptera*	Golden-winged Warbler	G4 (1996-12-03)	THR	SC	S4B
BIRDS	*Vireo griseus*	White-eyed Vireo	G5 (1996-12-03)	---	---	S2B
BIRDS	*Xanthocephalus xanthocephalus*	Yellow-headed Blackbird	G5 (1996-12-04)	---	---	S2B
BRYOPHYTES	*Buxbaumia aphylla*	Brown Shield Moss	---	---	---	S2S3
BRYOPHYTES	*Grimmia muehlenbeckii*	Muehlenbeck's Grimmia	---	---	---	S1
BRYOPHYTES	*Syntrichia norvegica*	Norway Screw Moss	---	---	---	S1
BRYOPHYTES	*Tritomaria capitata*	Delicate Notchwort	---	---	---	S2?
BUTTERFLIES	*Danaus plexippus*	Monarch	G5 (2009-09-02)	SC	SC	S2N
BUTTERFLIES	*Erora laeta*	Early Hairstreak	GU (2009-09-02)	---	---	S2
DAMSELFLIES	*Enallagma aspersum*	Azure Bluet	G5 (1988-08-18)	---	---	S3
DAMSELFLIES	*Lestes eurinus*	Amber-winged Spreadwing	G5	---	---	S3
DRAGONFLIES	*Aeshna clepsydra*	Mottled Darner	G4G5	---	---	S3
DRAGONFLIES	*Aeshna verticalis*	Green-striped Darner	G5 (1985-12-30)	---	---	S3
DRAGONFLIES	*Arigomphus furcifer*	Lilypad Clubtail	G5 (1985-12-30)	---	---	S3
DRAGONFLIES	*Cordulegaster obliqua*	Arrowhead Spiketail	G4 (1988-10-10)	---	---	S2
DRAGONFLIES	*Gomphaeschna furcillata*	Harlequin Darner	G5 (1985-12-30)	---	---	S3
DRAGONFLIES	*Helocordulia uhleri*	Uhler's Sundragon	G5 (1985-12-30)	---	---	S3
DRAGONFLIES	*Libellula semifasciata*	Painted Skimmer	G5 (1985-12-30)	---	---	S2
DRAGONFLIES	*Nasiaeschna pentacantha*	Cyrano Darner	G5 (1985-12-30)	---	---	S3
DRAGONFLIES	*Somatochlora elongata*	Ski-tipped Emerald	G5 (1985-12-30)	---	---	S3?
DRAGONFLIES	*Somatochlora incurvata*	Incurvate Emerald	G5	---	---	S1
DRAGONFLIES	*Somatochlora tenebrosa*	Clamp-tipped Emerald	G5 (1985-12-30)	---	---	S2S3
DRAGONFLIES	*Stylurus amnicola*	Riverine Clubtail	G4 (2002-11-21)	END	END	S1
DRAGONFLIES	*Sympetrum corruptum*	Variegated Meadowhawk	G5 (1985-12-30)	---	---	S3
DRAGONFLIES	*Williamsonia fletcheri*	Ebony Boghaunter	G4	---	---	S2
FISHES	*Acipenser fulvescens pop. 3*	Lake Sturgeon (Great Lakes - Upper St.	---	THR	---	S2
FISHES	*Anguilla rostrata*	American Eel	---	END	---	S1S2
FISHES	*Esox americanus*	Grass Pickerel	---	SC	---	S3
FISHES	*Ichthyomyzon unicuspis pop. 1*	Silver Lamprey (Great Lakes - Upper St.	---	SC	---	S3
FISHES	*Lepomis peltastes pop. 2*	Northern Sunfish (Great Lakes - Upper S	---	SC	---	S3

Appendix E2. Rare species documented in the Muskoka River Watershed

Species Group	Scientific Name[1]	Common Name[1]	G-Rank[2]	Federal Status (SARA Schedule 1)[3]	Provincial Status (O.Reg. 230/08)[4]	S-Rank[5]
INSECTS	*Ancistrocerus unifasciatus*	A Potter Wasp	---	---	---	S3
INSECTS	*Bombus affinis*	Rusty-patched Bumble Bee	G1	END	END	---
INSECTS	*Bombus bohemicus*	Gypsy Cuckoo Bumble Bee	G4	---	END	---
INSECTS	*Cerma cora*	Owl-eyed Bird-dropping Moth	---	---	---	S3S4
INSECTS	*Coccinella novemnotata*	Nine-spotted Lady Beetle	G5	---	END	---
INSECTS	*Fagitana littera*	Marsh Fern Moth	---	---	---	S3
INSECTS	*Oligia bridghamii*	Bridgham's Brocade Moth	---	---	---	S3S4
INSECTS	*Phanogomphus borealis*	Beaverpond Clubtail	---	---	---	S3
INSECTS	*Phanogomphus descriptus*	Harpoon Clubtail	---	---	---	S3
INSECTS	*Scudderia septentrionalis*	Northern Bush Katydid	---	---	---	S3?
INSECTS	*Sideridis congermana*	German Cousin Moth	---	---	---	S3S4
INSECTS	*Sympistis dinalda*	A Noctuid Moth	---	---	---	S3S4
INSECTS	*Vespula vidua*	Widow Yellowjacket	---	---	---	S3
MAMMALS	*Canis lupus lycaon*	Eastern Wolf	G4G5TNR	---	SC	S4
MAMMALS	*Canis sp. cf. lycaon*	Eastern Wolf	---	THR	---	S2
MAMMALS	*Myotis leibii*	Eastern Small-footed Myotis	G4	---	END	---
MAMMALS	*Myotis lucifugus*	Little Brown Myotis	G3	END	END	S3
MAMMALS	*Myotis septentrionalis*	Northern Myotis	G1G2	END	END	---
MAMMALS	*Puma concolor*	Cougar	G5 (1996-11-19)	---	END	---
MAMMALS	*Taxidea taxus jacksoni*	American Badger (Southwestern Ontari	G5T4	END	END	---
MOLLUSCS	*Neohelix albolabris*	Whitelip Snail	---	---	---	S2S3
VASCULAR PLANTS	*Amelanchier amabilis*	Beautiful Serviceberry	G4?	---	---	S2S3
VASCULAR PLANTS	*Aplectrum hyemale*	Puttyroot	G5	---	---	S2
VASCULAR PLANTS	*Bartonia paniculata*	Branched Bartonia	G5	---	---	S2
VASCULAR PLANTS	*Bartonia paniculata paniculata*	Branched Bartonia	---	---	---	S2
VASCULAR PLANTS	*Bartonia paniculata ssp. paniculat*	Branched Bartonia	G5T5	THR	THR	S2
VASCULAR PLANTS	*Bartonia virginica*	Yellow Bartonia	G5	---	---	S2
VASCULAR PLANTS	*Bidens trichosperma*	Crowned Beggarticks	G5?	---	---	S2
VASCULAR PLANTS	*Botrychium angustisegmentum*	Narrow Triangle Moonwort	G5T4	---	---	S3
VASCULAR PLANTS	*Carex folliculata*	Northern Long Sedge	G5	---	---	S3
VASCULAR PLANTS	*Castanea dentata*	American Chestnut	G3	END	END	S1S2
VASCULAR PLANTS	*Ceratophyllum echinatum*	Spiny Hornwort	G4	---	---	S3?
VASCULAR PLANTS	*Chimaphila maculata*	Spotted Wintergreen	G5	THR	THR	S2
VASCULAR PLANTS	*Coleataenia rigidula*	Redtop Panicgrass	G5T5?	---	---	S3
VASCULAR PLANTS	*Coleataenia rigidula ssp. rigidula*	Redtop Panicgrass	G5T5?	---	---	S3
VASCULAR PLANTS	*Cornus florida*	Eastern Flowering Dogwood	G5	END	END	S2?
VASCULAR PLANTS	*Eclipta prostrata*	False-daisy	G5	---	---	S1?
VASCULAR PLANTS	*Fraxinus nigra*	Black Ash	G5	THR	---	S4
VASCULAR PLANTS	*Gratiola lutea*	Golden Hedge-hyssop	G5	---	---	S3?
BRYOPHYTES	*Herzogiella striatella*	Round Stump Moss	---	---	---	S3
VASCULAR PLANTS	*Hypericum ascyron ssp. pyramida*	American Great St. John's-wort	G4T4	---	---	S3
VASCULAR PLANTS	*Inoderma byssaceum*	A Comma Lichen	---	---	---	S3?
VASCULAR PLANTS	*Isoetes tuckermanii*	Tuckerman's Quillwort	G4G5	---	---	S2S3

Appendix E2. Rare species documented in the Muskoka River Watershed

Species Group	Scientific Name[1]	Common Name[1]	G-Rank[2]	Federal Status (SARA Schedule 1)[3]	Provincial Status (O.Reg. 230/08)[4]	S-Rank[5]
VASCULAR PLANTS	*Isoetes tuckermanii ssp. tuckerma*	Tuckerman's Quillwort	G4G5	---	---	S2S3
BRYOPHYTES	*Isopterygiopsis pulchella*	Neat Silk Moss	---	---	---	S3
VASCULAR PLANTS	*Juglans cinerea*	Butternut	G3	END	END	S2?
VASCULAR PLANTS	*Juncus greenei*	Greene's Rush	G5	---	---	S3
VASCULAR PLANTS	*Justicia americana*	American Water-willow	G5	THR	THR	S2
VASCULAR PLANTS	*Liatris spicata*	Dense Blazing-star	G5	THR	THR	S2
VASCULAR PLANTS	*Linum striatum*	Ridged Yellow Flax	G5	---	---	S1
VASCULAR PLANTS	*Mimulus moschatus*	Musk Monkeyflower	---	---	---	S1S2
VASCULAR PLANTS	*Monarda didyma*	Scarlet Beebalm	G5	---	---	S3
VASCULAR PLANTS	*Monarda punctata*	Spotted Beebalm	G5	---	---	S1
VASCULAR PLANTS	*Neottia auriculata*	Auricled Twayblade	G3G4	---	---	S3
VASCULAR PLANTS	*Neottia bifolia*	Southern Twayblade	G4	---	---	S1S2
VASCULAR PLANTS	*Nuphar microphylla*	Small Yellow Pond-lily	G5T4T5	---	---	S3?
VASCULAR PLANTS	*Oenothera villosa*	Hairy Evening-primrose	G5	---	---	S2?
VASCULAR PLANTS	*Panax quinquefolius*	American Ginseng	G3G4	END	END	S2
VASCULAR PLANTS	*Peltandra virginica*	Green Arrow Arum	G5	---	---	S3
VASCULAR PLANTS	*Persicaria arifolia*	Halberd-leaved Tearthumb	G5	---	---	S3
VASCULAR PLANTS	*Phegopteris hexagonoptera*	Broad Beech Fern	G5	SC	SC	S3
VASCULAR PLANTS	*Phlox subulata*	Moss Phlox	G5	---	---	S1?
VASCULAR PLANTS	*Picea rubens*	Red Spruce	G5	---	---	S3
VASCULAR PLANTS	*Platanthera hookeri*	Hooker's Orchid	G4	---	---	S3
VASCULAR PLANTS	*Platanthera macrophylla*	Greater Round-leaved Orchid	G5T4	---	---	S2
VASCULAR PLANTS	*Poa saltuensis ssp. languida*	Weak Bluegrass	G5T4Q	---	---	S3
VASCULAR PLANTS	*Polypodium appalachianum*	Appalachian Polypody	G4G5	---	---	S1S2
VASCULAR PLANTS	*Potamogeton bicupulatus*	Snail-seed Pondweed	G4	---	---	S3
VASCULAR PLANTS	*Potamogeton confervoides*	Alga Pondweed	G5	---	---	S2
VASCULAR PLANTS	*Ratibida pinnata*	Grey-headed Prairie Coneflower	G5	---	---	S3
VASCULAR PLANTS	*Sagittaria cristata*	Crested Arrowhead	G4?	---	---	S3
VASCULAR PLANTS	*Sceptridium oneidense*	Blunt-lobed Grapefern	G4	---	---	S3?
BRYOPHYTES	*Schistostega pennata*	Luminous Moss	---	---	---	S2
VASCULAR PLANTS	*Silphium perfoliatum*	Cup Plant	G5	---	---	S2
VASCULAR PLANTS	*Solidago nemoralis ssp. decemflor*	Prairie Grey-stemmed Goldenrod	G5T5	---	---	S1S2
VASCULAR PLANTS	*Solidago rigida*	Stiff Goldenrod	G5	---	---	S3
BRYOPHYTES	*Sphagnum lescurii*	Yellow Peatmoss	---	---	---	S1
VASCULAR PLANTS	*Subularia aquatica*	Water Awlwort	G5	---	---	S2S3
VASCULAR PLANTS	*Tradescantia ohiensis*	Ohio Spiderwort	G5	---	---	S2
VASCULAR PLANTS	*Trichophorum clintonii*	Clinton's Clubrush	G4	---	---	S2S3
VASCULAR PLANTS	*Utricularia geminiscapa*	Twin-stemmed Bladderwort	G4G5	---	---	S3?
REPTILES	*Chelydra serpentina*	Snapping Turtle	G5 (1996-10-21)	SC	SC	S3
REPTILES	*Chrysemys picta marginata*	Midland Painted Turtle	G5T5 (1996-10-31)	SC	---	S4
REPTILES	*Clemmys guttata*	Spotted Turtle	G5 (1996-10-21)	END	END	S2
REPTILES	*Emydoidea blandingii*	Blanding's Turtle	G4 (1997-09-23)	THR	THR	S3
REPTILES	*Graptemys geographica*	Northern Map Turtle	G5 (1996-10-21)	SC	SC	S3

Appendix E2. Rare species documented in the Muskoka River Watershed

Species Group	Scientific Name[1]	Common Name[1]	G-Rank[2]	Federal Status (SARA Schedule 1)[3]	Provincial Status (O.Reg. 230/08)[4]	S-Rank[5]
REPTILES	*Heterodon platirhinos*	Eastern Hog-nosed Snake	G5 (1996-10-30)	THR	THR	S3
REPTILES	*Pantherophis vulpinus 2*	Eastern Foxsnake (Carolinian populatior	G3TNR	END	END	S2
REPTILES	*Plestiodon fasciatus 1*	Common Five-lined Skink (Carolinian po	G5 (1996-10-28)	END	END	S2
REPTILES	*Plestiodon fasciatus 2*	Common Five-lined Skink (Southern Shi	G5 (1996-10-28)	SC	SC	S3
REPTILES	*Sistrurus c. catenatus 2*	Eastern Massasauga (Great Lakes/St. La	G4T3	THR	THR	S3
REPTILES	*Sternotherus odoratus*	Eastern Musk Turtle (Stinkpot)	G5 (1996-10-23)	THR	SC	S3
REPTILES	*Thamnophis sauritus septentriona*	Northern Ribbonsnake	G5 (1997-02-26)	SC	SC	S4
REPTILES	*Glyptemys insculpta*	Wood Turtle	G4 (1996-10-21)	THR	END	---
REPTILES	*Pantherophis gloydi pop. 1*	Eastern Foxsnake (Georgian Bay popula	---	THR	---	S3
REPTILES	*Plestiodon fasciatus*	Common Five-lined Skink (Southern Shi	---	SC	---	S3
REPTILES	*Plestiodon fasciatus pop. 2*	Common Five-lined Skink (Southern Shi	---	SC	---	S3
REPTILES	*Sistrurus catenatus pop. 1*	Massasauga (Great Lakes / St. Lawrence	---	THR	---	S3
REPTILES	*Thamnophis sauritus*	Eastern Ribbonsnake	---	SC	---	S4
---	---	---	---	---	---	---
---	---	---	---	---	---	---
Legend:	---	---	---	---	---	---

1. NHIC (Natural Heritage Information Centre). 2022. Ontario Vascular Plant Species List. Ontario Ministry of Natural Resources. https://www.ontario.ca/page/get-natural-heritage-information
2. NHIC (Natural Heritage Information Centre). 2022. Ontario Vascular Plant Species List. Ontario Ministry of Natural Resources. https://www.ontario.ca/page/get-natural-heritage-information. G1 critically imperiled on a global scale; G2 imperiled on a global scale; G3 vulnerable on a global scale; G4 apparently secure on a global scale; G5 secure on a global scale; GX Presumed Extinct, Not located despite intensive searches and virtually no likelihood of rediscovery; GH Possibly Extinct, Missing; known from only historical occurrences but still some hope of rediscovery; G#G# Range Rank—A numeric range rank (e.g., G2G3) is used to indicate the range of uncertainty in the status of a species or community; GU Unrankable—-Currently unrankable due to lack of information or due to substantially conflicting information about status or trends. Whenever possible, the most likely rank is assigned and the question mark qualifier is added (e.g., G2?) to express uncertainty, or a range rank (e.g., G2G3) is used to delineate the limits (range) of uncertainty; GNR Unranked—Global rank not yet assessed; GNA Not Applicable—A conservation status rank is not applicable because the species is not a suitable target for conservation activities; ? Inexact Numeric Rank—Denotes inexact numeric rank (e.g., G2?).
3. NHIC (Natural Heritage Information Centre). 2022. Ontario Vascular Plant Species List. Ontario Ministry of Natural Resources. NAR Not At Risk, a wildlife species that has been evaluated and found to be not at risk of extinction given the current circumstances; SC Special Concern, a wildlife species that may become threatened or endangered because of a combination of biological characteristics and identified threats; T Threatened, a wildlife species that is likely to become endangered if nothing is done to reverse the factors leading to its extirpation or extinction; E Endangered, a wildlife species facing imminent extirpation or extinction; XT Extirpated, a wildlife species that no longer exists in the wild in Canada, but exists elsewhere; X Extinct, a wildlife species that no longer exists.
4. NHIC (Natural Heritage Information Centre). 2022. Ontario Vascular Plant Species List. Ontario Ministry of Natural Resources. https://www.ontario.ca/page/get-natural-heritage-information. NAR Not At Risk; SC Special Concern; THR Threatened; END Endangered; EXP Extirpated; END-R Endangered (Regulated)
5. NHIC (Natural Heritage Information Centre). 2022. Ontario Vascular Plant Species List. Ontario Ministry of Natural Resources. https://www.ontario.ca/page/get-natural-heritage-information. SX Presumed Extirpated; SH Possibly Extirpated (Historical); S1 Critically Imperiled; S2Imperiled; S3 Vulnerable; S4 Apparently Secure; S5 Secure; SNR Unranked; SU Unrankable (conflicting information about status or trends); SNA A conservation status rank is not applicable because the species is not a suitable target for conservation activities (e.g. an introduced species, or a species that has been recorded in Ontario but the observations were made at locations far outside the species' usual range); S#S# Range Rank (used to indicate

Appendix E-3

MaxEnt Habitat Modeling Results by Species and Subwatershed

Appendix E3. MaxEnt habitat modeling results by species and subwatershed

	Likelihood Value										
Habitat Suitability by Watershed - Woodthrush	**0**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**Sum**
Baysville Narrows - South Branch Muskoka River	232.39	896.66	1327.98	2059.1	5318.34	11084.02	13124	4657.24	333.68	0	39033.41
Blackstone Harbour	0	0	6.87	98.89	336.52	2397.12	7911.64	6378.65	314.47	1.98	17446.14
Distress Pond - Big East River	60.62	2049.54	3784.56	8127.5	14756.76	12189.38	4339.52	1098.56	58.92	0	46465.36
Hollow River	6255.63	12872.43	7497.13	5861.51	5813.7	2431.54	190.46	0	0	0	40922.4
Lake Muskoka - Muskoka River	611.16	1038.67	1542.81	2292.94	3467.83	6211.83	13640.48	20069.94	3494.59	95.5	52465.75
Lake Rosseau	662.41	987.28	1289.22	2049.89	4589.75	12506.82	28186.38	24910.39	4260.48	88.49	79531.11
Lake Vernon	9.15	71.38	116.85	288.71	1147.73	5093.52	13196.98	15194.07	1815.14	10.21	36943.74
Little East River - Big East River	0	8.32	77.73	177.53	942.89	4309.86	11559.37	9767.59	702.47	12.39	27558.15
Moon River Bay	0	0.08	20.24	257.74	2069.93	8569.44	10405.06	2664.14	10.34	0	23996.97
Musquash River	0	0	0	39.04	1968.22	9957.61	14482.67	5112.83	186.56	0	31746.93
North Branch Muskoka River	2.97	131.39	296.22	726.61	2795.17	7805.9	17386.56	16433.29	2673.25	13.99	48265.35
Oxtongue River Outlet	0	6.02	384.35	5032.65	8615.55	7668.15	3927.28	1316.77	69.27	0	27020.04
South Branch Muskoka River Outlet	4.27	132.19	1130.93	1605.61	5255.52	9927.36	12470.33	5353.86	503.27	0	36383.34
Tea Lake - Oxtongue River	5857.83	8765.77	10932.9	7881.19	897.06	34.37	0	0	0	0	34369.12

	Likelihood Value										
Habitat Suitability by Watershed - Spotted turtle	**0**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**Sum**
Baysville Narrows - South Branch Muskoka River	32980.08	2160.9	1131.6	735.63	545.07	421.59	332.58	262.26	222.42	222.01	39014.14
Blackstone Harbour	8791.6	2267.35	1461.01	1090.77	884.4	740.68	639.05	562.9	509.9	498.39	17446.05
Distress Pond - Big East River	0	0	0	0	0	0	0	0	0	0	0
Hollow River	2.34	0.01	0	0	0	0	0.01	0	0	0	2.36
Lake Muskoka - Muskoka River	37980.38	4271.57	2603.84	1858.08	1418.88	1134.86	948.14	800.59	697.5	745.79	52459.63
Lake Rosseau	58412.65	6797.21	3870.14	2654.32	1988.03	1566.49	1269.78	1050.37	903.55	999.06	79511.6
Lake Vernon	2.03	0.18	0.13	0.07	0.06	0.07	0.03	0.01	0.02	0	2.6
Little East River - Big East River	1.15	0.2	0.09	0.05	0.04	0.05	0.02	0.01	0	0	1.61
Moon River Bay	10309.76	2931.89	2010.06	1570.26	1325.14	1186	1092.23	1050.47	1087.91	1430.11	23993.83
Musquash River	19919.89	3766.07	2211.37	1524.16	1143.17	884.66	725.08	611.09	535.34	426.11	31746.94
North Branch Muskoka River	16.96	0.83	0.35	0.18	0.16	0.07	0.04	0.04	0.03	0.01	18.67
Oxtongue River Outlet	4.76	0.14	0.1	0.04	0.03	0.02	0.04	0.02	0.02	0.01	5.18
South Branch Muskoka River Outlet	29400.37	2426.73	1337.14	883.91	650.69	485.17	391.31	306.27	250.4	240.91	36372.9
Tea Lake - Oxtongue River	0	0	0	0	0	0	0	0	0	0	0

	Likelihood Value										
Habitat Suitability by Watershed - Skink	**0**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**Sum**
Baysville Narrows - South Branch Muskoka River	1.09	0.13	0.17	0.12	0.11	0.11	0.14	0.12	0.08	0.06	2.13
Blackstone Harbour	2159.6	2632.74	2344.5	2180.38	1988.43	1824.94	1608.29	1226.38	861.5	619.36	17446.12
Distress Pond - Big East River	0	0	0	0	0	0	0	0	0	0	0
Hollow River	0	0	0	0	0	0	0	0	0	0	0
Lake Muskoka - Muskoka River	27947.2	6384.27	4578.5	3643.17	3030.84	2573.35	2085.34	1417.85	607.76	196.2	52464.48
Lake Rosseau	41312.4	11007.57	7397.18	5625.1	4513	3605.23	2698.38	1805.43	1037.54	520.44	79522.27

Appendix E3. MaxEnt habitat modeling results by species and subwatershed

Lake Vernon	1.46	0.52	0.22	0.15	0.11	0.1	0.04	0	0	0	2.6
Little East River - Big East River	0	0	0	0	0	0	0	0	0	0	0
Moon River Bay	4558.95	2097.61	1819.21	1714.75	1717.44	1794.93	1937.1	2327.14	3001.51	3028.33	23996.97
Musquash River	14388.59	4193.6	3109.34	2529.75	2108.61	1822.09	1486.66	1128.26	696.49	283.54	31746.93
North Branch Muskoka River	8.1	1.42	0.69	0.59	0.32	0.21	0.17	0.12	0.1	0.01	11.73
Oxtongue River Outlet	0	0	0	0	0	0	0	0	0	0	0
South Branch Muskoka River Outlet	24250.13	3534.27	2308.31	1701.73	1348.39	1069.73	815.19	604.26	431.33	298.01	36361.35
Tea Lake - Oxtongue River	0	0	0	0	0	0	0	0	0	0	0

	Likelihood Value										
Habitat Suitability by Watershed - Ribbon Snake	**0**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**Sum**
Baysville Narrows - South Branch Muskoka River	1.1	0.44	0.2	0.15	0.06	0.04	0.07	0.03	0.04	0	2.13
Blackstone Harbour	2313.68	2409.97	2301.45	2119.08	1983.74	1737.32	1538.23	1347.45	1032	663.22	17446.14
Distress Pond - Big East River	0	0	0	0	0	0	0	0	0	0	0
Hollow River	0	0	0	0	0	0	0	0	0	0	0
Lake Muskoka - Muskoka River	21734.16	7435.57	5240.49	4234.15	3546.86	3036.47	2626.05	2157.54	1599.85	853.36	52464.5
Lake Rosseau	28736.67	13918.27	9999.46	7484.57	5641.71	4375.17	3452.31	2732.01	2041.41	1140.69	79522.27
Lake Vernon	1	0.49	0.53	0.14	0.1	0.16	0.1	0.05	0.04	0	2.61
Little East River - Big East River	0	0	0	0	0	0	0	0	0	0	0
Moon River Bay	1931.61	2469.87	2369.21	2322.95	2314.46	2396.92	2446.53	2530.6	2643.71	2571.09	23996.95
Musquash River	4541.61	5215.89	4639.82	4040.95	3539.51	3052.54	2587.64	2037.98	1397	693.99	31746.93
North Branch Muskoka River	5.86	2.53	1.31	0.91	0.5	0.25	0.18	0.13	0.03	0.01	11.71
Oxtongue River Outlet	0	0	0	0	0	0	0	0	0	0	0
South Branch Muskoka River Outlet	15849.07	6446.43	4148.27	2842.09	2104.79	1613.82	1193.59	910.01	727.8	525.46	36361.33
Tea Lake - Oxtongue River	0	0	0	0	0	0	0	0	0	0	0

	Likelihood Value										
Habitat Suitability by Watershed - Monarch	**0**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**Sum**
Baysville Narrows - South Branch Muskoka River	4438.86	4724.23	4727.62	4853.21	4786.72	4558.75	4305.68	3812.15	2301.19	524.99	39033.4
Blackstone Harbour	364.65	922.65	1319.65	1768.14	2236	2583.85	2810.32	2809.62	2231.5	399.76	17446.14
Distress Pond - Big East River	6355.37	10409.57	9541.4	7580.77	5541.14	3755.85	2164.01	904.5	196.68	16.07	46465.36
Hollow River	15352.7	10636.16	6588.76	3829.81	2316.27	1353.24	657.03	180.67	7.76	0.01	40922.41
Lake Muskoka - Muskoka River	4483.55	4041.78	4323.94	4767.24	5262.77	5865.99	6694.27	7387.04	6711.39	2927.81	52465.78
Lake Rosseau	5477.56	6080.16	7305.07	8265.11	9081.32	9777.43	10471.91	10560.84	8563.43	3947.58	79530.41
Lake Vernon	3574.88	4390.52	4354.77	4165.43	3992.79	3840.72	3739.76	3850.67	3651.84	1382.37	36943.75
Little East River - Big East River	2627.44	3450.36	3298.09	3219.93	3091.75	3003.34	2901.03	2869.13	2444.5	652.58	27558.15
Moon River Bay	550.96	1192.86	2075.81	2892.77	3789.59	4465.67	4691.59	3165.29	1119.34	53.1	23996.98
Musquash River	582.51	1673.45	2655.4	3591.36	4510.81	5289.45	5725.76	5006.91	2404.39	306.89	31746.93
North Branch Muskoka River	3917.22	5296.72	5810.28	5757.21	5525.36	5384.84	5319.68	5126.01	4246.66	1881.35	48265.33
Oxtongue River Outlet	2253.52	4958.31	5105.1	4522.71	3780.18	2799.97	1926.93	1065.9	516.12	91.3	27020.04
South Branch Muskoka River Outlet	3895.64	4740.09	4523.2	4400.62	4244.28	4179.77	4041.4	3638.37	2301.34	418.63	36383.34
Tea Lake - Oxtongue River	15565.04	10536.45	5360.69	2401.35	475.43	29.14	1.03	0	0	0	34369.13

Appendix E3. MaxEnt habitat modeling results by species and subwatershed

	Likeihood Value										
Habitat Suitability by Watershed - Massassauga	**0**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**Sum**
Baysville Narrows - South Branch Muskoka River	0	0	0	0	0	0	0	0	0	0	0
Blackstone Harbour	375.72	1100.55	1835.9	2511.5	2837.75	2931.77	2452.43	1728.45	1053.16	618.89	17446.12
Distress Pond - Big East River	0	0	0	0	0	0	0	0	0	0	0
Hollow River	0	0	0	0	0	0	0	0	0	0	0
Lake Muskoka - Muskoka River	16775.46	7447	6268.86	5972.19	5404.49	4543.61	3432.54	1935.86	603.58	79.1	52462.69
Lake Rosseau	22392.53	12390.09	10999.86	9627.18	8116.81	6666.22	4830.24	2867.37	1259.4	372.61	79522.31
Lake Vernon	0.76	0.56	0.57	0.34	0.16	0.12	0.18	0.09	0	0	2.78
Little East River - Big East River	0	0	0	0	0	0	0	0	0	0	0
Moon River Bay	1268.48	1538.48	1589.61	1753.71	1926.3	2420.4	3066.17	3643.38	3496.61	3293.81	23996.95
Musquash River	5891.9	4934.07	4130.41	3666.85	3390.46	3019.72	2604.36	2126.24	1418.1	564.81	31746.92
North Branch Muskoka River	3.63	1.34	0.94	0.63	0.43	0.27	0.28	0.17	0	0	7.69
Oxtongue River Outlet	0	0	0	0	0	0	0	0	0	0	0
South Branch Muskoka River Outlet	0.09	0.09	0.2	0.32	0.46	0.37	0.21	0.16	0.01	0	1.91
Tea Lake - Oxtongue River	0	0	0	0	0	0	0	0	0	0	0

	Likeihood Value										
Habitat Suitability by Watershed - Hog-nosed	**0**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**Sum**
Baysville Narrows - South Branch Muskoka River	27506.44	3897.74	2175.03	1513.72	1119.4	880.9	690.24	514.58	371.95	352.77	39022.77
Blackstone Harbour	4081.82	3227.99	2430.04	1964.01	1606.24	1341.6	1088.32	815.08	544.68	346.35	17446.13
Distress Pond - Big East River	33240.17	4462.53	2809.1	1930.56	1370.72	954.76	683.33	497.01	341.76	175.41	46465.35
Hollow River	36667.78	1159.17	676.66	451.27	345.5	307.01	307.42	309.97	336.54	361.1	40922.42
Lake Muskoka - Muskoka River	27695.63	6538.96	4748.47	3728.13	2973.47	2312.37	1776.7	1224.58	755.46	695.55	52449.32
Lake Rosseau	43107.18	10795.19	7051.73	5129.1	3872.59	2992.41	2277.65	1616.67	1148.47	1400.46	79391.45
Lake Vernon	19466.99	5381.31	3468.5	2564.95	1890.4	1377.68	1026.24	807.12	566.22	393.78	36943.19
Little East River - Big East River	11121.9	4897.69	3137.22	2323.33	1791.07	1447.03	1152.31	870.51	558.9	258.18	27558.14
Moon River Bay	6733.52	3406.14	2738.51	2353.65	2109.82	1820.99	1602.73	1363.83	1091.15	776.33	23996.67
Musquash River	17740.43	4671.61	2789.35	1912.04	1441.46	1115.54	868.77	632.12	382.03	193.59	31746.94
North Branch Muskoka River	30946.37	6061.99	3593.08	2502.73	1793.85	1319.97	929.88	594.31	308.31	214.85	48265.34
Oxtongue River Outlet	15183.05	3815.95	2195.31	1500.86	1136.32	904.5	756.4	632.41	507.57	387.67	27020.04
South Branch Muskoka River Outlet	25167.16	3631.48	2173.88	1517.33	1158.42	870.75	675.34	488.78	344.57	354.51	36382.22
Tea Lake - Oxtongue River	24382.63	2114.57	1446.1	1121.07	950.05	846.1	752.12	722.55	777.08	1256.19	34368.46

	Likelihood Value										
Habitat Suitability by Watershed - Blanding's	**0**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**Sum**
Baysville Narrows - South Branch Muskoka River	18601.08	4931.68	3418.64	2728.3	2342.62	2087.74	1985.65	1835.99	991.39	110.32	39033.41
Blackstone Harbour	6258.54	2518.53	1822.17	1427.18	1217.97	1081.92	993.09	900.28	721.51	504.94	17446.13
Distress Pond - Big East River	19453.56	6929.97	4827.07	3722.8	3000.76	2490.26	2096.01	1768.75	1471.83	704.33	46465.34
Hollow River	18633.99	5021.12	3447.14	2757.87	2357.61	2138.16	2024.07	1875.08	1701.45	965.9	40922.39
Lake Muskoka - Muskoka River	18574.05	8736.57	6069.21	4707.17	3850.23	3268.26	2701.48	2054.82	1451.41	1052.53	52465.73

Appendix E3. MaxEnt habitat modeling results by species and subwatershed

Lake Rosseau	29598.26	13456.14	9279.96	7008.23	5525.22	4435.07	3579.7	2805.17	2167.9	1675.46	79531.11
Lake Vernon	14418.17	6285.55	4198.41	3129.37	2482.23	1986.98	1611.61	1312.39	966.08	552.94	36943.73
Little East River - Big East River	11197.08	3447.76	2484.5	2078.35	1853.6	1759.92	1794.03	1855.34	1026.51	61.06	27558.15
Moon River Bay	7391.97	3251.18	2413.79	2064.79	1848.88	1693.01	1481.87	1295.33	1253.68	1302.45	23996.95
Musquash River	11823.83	4709.89	3561.49	2988.53	2478.28	2003.58	1595.79	1198.78	839.48	547.27	31746.92
North Branch Muskoka River	14524.37	8491.97	6227.7	4800.91	3850.59	3127.12	2577.26	2044.97	1482.01	1138	48264.9
Oxtongue River Outlet	8290.4	3470.74	2646.74	2264.18	2042.25	1918.19	1857.99	1835.12	1762.91	931.51	27020.03
South Branch Muskoka River Outlet	14696.06	6272.18	4105.25	3005.8	2305.67	1789.53	1410.86	1113.86	857.34	826.27	36382.82
Tea Lake - Oxtongue River	12733.73	4373.52	3011.04	2423	2045.55	1839.21	1681.41	1676.3	1863.93	2721.43	34369.12

	Likelihood Value										
Habitat Suitability by Watershed - Myotis*	**0**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**Sum**
Baysville Narrows - South Branch Muskoka River	0	0	0	73.24	3018.54	3106.06	2431.06	23093.61	7309.42	1.47	39033.4
Blackstone Harbour	0	0	0	0	99.95	764.28	1707.83	9244.59	5624.74	4.74	17446.13
Distress Pond - Big East River	0	0	0	0	55.91	674.51	1693.41	24578.05	19463.48	0	46465.36
Hollow River	0	0	0	10.4	1324.86	1895.95	2279.52	25628.7	9782.97	0	40922.4
Lake Muskoka - Muskoka River	0	0	0	406.53	3815.04	5741.3	5520.96	22248.05	14716.53	17.35	52465.76
Lake Rosseau	0	0	0	542.63	4363.87	6946.23	6413.69	37572.56	23668.19	23.94	79531.11
Lake Vernon	0	0	0	0.33	293.04	1544.95	2660.41	20522.39	11906.69	15.93	36943.74
Little East River - Big East River	0	0	0	0	193.9	747.5	1752.32	17864.38	6997.69	2.36	27558.15
Moon River Bay	0	0	0	0	46.2	665.71	1838.78	13627.35	7818.92	0	23996.96
Musquash River	0	0	0	0	43.95	661.26	2079.49	15549.92	13402.35	9.95	31746.92
North Branch Muskoka River	0	0	0	0	464.17	1898.51	2857.25	27846.55	15186.3	12.56	48265.34
Oxtongue River Outlet	0	0	0	0	25.08	460.48	1331.53	17033.25	8169.45	0.25	27020.04
South Branch Muskoka River Outlet	0	0	0	0	71.31	1059.16	2297.3	24403.67	8549.72	2.18	36383.34
Tea Lake - Oxtongue River	0	0	0	0	248.2	1616.1	2178.97	15498.19	14827.67	0	34369.13

**Modeled using HSM, not MaxEnt.*