



Great Lakes Conservation Blueprint for Aquatic Biodiversity

Volume 2

**Tertiary Watershed
Summaries**

C. Phair, B.L. Henson and K.E. Brodribb



2005

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*The maps presented in this report are for
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Cover photos: Stream through boreal fen,
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Bakowsky, NHIC Archives). Fowler's Toad (*Bufo
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Riffleshell (*Epioblasma torulosa rangiana*) (S.
Staton, NWRI). Ebony Boghaunter (*Williamsonia
fletcheri*) (C.D. Jones, NHIC Archives).

***For further information contact the Nature
Conservancy of Canada at 1-877-343-3532 or the
Natural Heritage Information Centre at 1-705-
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*The Nature Conservancy of Canada is a non-profit,
non-advocacy organization that takes a business-like
approach to land conservation and the preservation
of Canada's biodiversity. Its plan of action involves
partnerships and creative conservation solutions
with individuals, corporations, community groups,
conservation organizations and government
agencies that share its passion. Since 1962, NCC
and its supporters have protected more than 725,000
hectares (1.8 million acres) of ecologically
significant land across Canada – mountains and
valleys, coasts and lakes and rivers, prairies, forests,
wetlands and tundra – and all the species and
ecosystems that those landscapes support.*

*The Natural Heritage Information Centre was
established in 1993, as a partnership between the
Ontario Ministry of Natural Resources, the Nature
Conservancy of Canada, the Natural Heritage
League and The Nature Conservancy. The NHIC
maintains a central database for all of Ontario's
species, ecological communities and natural areas
and works with partners on a wide-range of
conservation initiatives. Science-based information
is made available to organizations and individuals
involved in the conservation of biodiversity. The
NHIC also represents Ontario's interests in many
national and international biodiversity and
conservation matters through the NatureServe
network.*

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Summary

This second volume of the Great Lakes Conservation Blueprint for Aquatic Biodiversity report summarizes the biodiversity targets within each tertiary watershed in the Great Lakes basin. The watershed summary reports also characterize the degree to which these biodiversity features occur within protected areas, conservation lands and the Conservation Blueprint portfolio. There are two maps for each tertiary watershed; one map shows aquatic habitats and the second map illustrates the Conservation Blueprint. The Conservation Blueprint maps are shaded according to the current protection status of the site. The digital GIS data layers pertaining to the Conservation Blueprint provide further detailed information; this and other local information should be consulted when planning at finer-scales, rather than relying exclusively on the maps in this document.

Gord Wichert developed the target ecosystem types and assisted with the identification of species targets. We would like to thank Sophie Graine for her contributions to the tertiary watershed summary text and Greg Sikma for his work on the cartographic products. We also thank Derek Johnston-Main, Kevin Jarbeau, Mark Woolley and Jason Henson for providing data for the summary tables in this document. We are also thankful to Jarmo Jalava for his comments and thoughtful review of these reports.

The following glossary of terms provides descriptions and definitions of terminology used throughout the volume.

Glossary of Terms

ANSI, Area of Natural and Scientific Interest: an area of land and water containing natural landscapes or features that have been identified as having life science or earth science values related to protection, scientific study or education under the Provincial Policy Statement (1996). These areas can be identified as having provincial or regional significance and can be situated on crown or private land. The Ontario Ministry of Natural Resources administers the ANSI program.

Biodiversity: the word "biodiversity" is a contraction of "biological diversity" and is commonly used to describe the number, variety and variability of living organisms. Biodiversity is commonly defined in terms of the variability of genes, species and ecosystems, corresponding to these three fundamental and hierarchically related levels of biological organization.

Biodiversity Target: an element of biodiversity selected as a focus for conservation planning or action. The three principle types of targets are species, ecological communities and ecological systems.

Biome: a regional ecosystem characterized by distinct types of vegetation, animals, and microbes that have developed under specific soil and climatic conditions.

Coarse-filter: an approach to assess and conserve species diversity by providing adequate representation (distribution and abundance) of ecological systems. The coarse-filter approach scores, compares and selects from among equivalent land units, terrestrial

ecological systems in this case, and is often followed by and combined with a fine-filter approach.

Condition: measures the degree of which anthropogenic disturbances have occurred at a site. Currently, the condition of a site can only be accurately determined through field inspection.

Conservation Goal: the number and spatial distribution of occurrences of targeted species, vegetation communities and/or ecological systems considered necessary to adequately conserve the target in an ecodistrict, physiographic region or tertiary watershed.

Conservation Lands: natural areas that are managed or regulated (*e.g.*, through land-use policy) for the long-term protection of their significant natural heritage values. The conservation lands identified in the Great Lakes Conservation Blueprint include protected areas (National Parks, Migratory Bird Sanctuaries, National Wildlife Areas, Provincial Parks, Conservation Reserves), as well as Provincially Significant Life Science Areas of Natural and Scientific Interest (ANSIs), Provincially Significant Wetlands, Conservation Authority lands, and Nature Conservancy of Canada properties.

Conservation Reserves: complement Provincial Parks in protecting representative natural areas and special landscapes and are regulated under the Public Lands Act. Most non-industrial resources uses (*e.g.*, fur harvesting, commercial fishing and bait harvesting) are permitted if they are compatible with the values of individual reserves. Most recreational and non-commercial activities can continue in the area provided they pose little threat to the natural ecosystems and features protected by the conservation reserve.

COSEWIC, Committee on the Status of Endangered Wildlife in Canada: is a national committee of experts that assesses and designates which wild species are in danger of disappearing from Canada. COSEWIC assigns the following status to species:

Status	Description
EXT, Extinct	A species that no longer exists
EXP, Extirpated	A species no longer existing in the wild in Canada, but occurs elsewhere
END, Endangered	A species facing imminent extirpation or extinction
THR, Threatened	A species likely to become endangered if limiting factors are not reversed
SC, Special Concern	A wildlife species that may become a threatened or an endangered species because of a combination of biological characteristics and identified threats
NAR, Not At Risk	A species that has been evaluated and found to be not at risk of extinction given the current circumstances
DD, Data Deficient	A species for which there is inadequate information to make a direct, or indirect, assessment of its risk of extinction

COSSARO, Committee on the Status of Species at Risk in Ontario: a provincial group of experts whose mandate is to evaluate and recommend a provincial status to candidate species and re-evaluate current species at risk for the Ontario Ministry of Natural Resources. COSSARO employs a uniform, scientifically-based, defensible approach to status evaluations. The committee evaluates species by considering factors such as

population size, trends and distribution, habitat trends and known threats. Based on its evaluation, COSSARO recommends the appropriate provincial status category for each candidate species. Once designated by the OMNR, assessed species are maintained on the OMNR's SARO List.

Declining Species: exhibit significant, long-term declines in habitat and/or abundance, are subject to a high degree of threat, or may have unique habitat or behavioural requirements that expose them to a great risk.

Disjunct Species: have populations that are geographically isolated from each other by at least one ecoregion.

Diversity: the variety of living organisms considered at all levels of organization including the genetic, species, and higher taxonomic levels. Biological diversity includes the variety of habitats, ecosystems and natural processes occurring within them.

Ecodistrict: a subdivision of an ecoregion characterized by distinctive assemblages of relief, geology, landforms and soils, vegetation, water, fauna, and land use.

Ecological Functions: means, in general, the natural processes, products or services that living and non-living environments provide or perform within or between species, ecosystems and landscapes. These may include biological, physical and socio-economic interactions.

Ecological System: dynamic spatial assemblages of ecological communities characterized by both biotic and abiotic components that 1) occur together on the landscape; 2) are tied together by similar ecological processes (*e.g.*, fire, hydrology), underlying environmental features (*e.g.*, soils, geology) or environmental gradients (*e.g.*, elevation, hydrologically-related zones); and 3) form a robust, cohesive, and distinguishable unit on the ground.

Element: refers to an element of biodiversity, a term used by CDCs and NatureServe to refer to the forms of biodiversity upon which CDCs and NatureServe compile information: species (including sub-species, varieties and hybrids) and natural communities.

Element Occurrence (EO): an area of land and/or water in which a species or natural community is, or was, present. An EO should have practical conservation value for the element (species or vegetation community) as evidenced by potential continued (or historical) presence and/or regular recurrence at a given location. For species, the EO often corresponds with the local population, but when appropriate may be a portion of a population (*e.g.*, long-distance dispersers) or a group of nearby populations (*e.g.*, metapopulation). For vegetation communities, the EO may represent a stand or patch of a natural community, or a cluster of stands or patches of a natural community. The Natural Heritage Information Centre is the central repository for Element Occurrence records.

Endemic: a species or ecological system that is restricted to a region, such as the Great Lakes ecoregion. Many endemic species and systems are generally considered more vulnerable to extinction due to their dependence on a single area for their survival.

Fine-filter: an approach to assess and conserve species diversity, in conjunction with a coarse-filter approach, for viable native species and ecological communities that cannot be reliably conserved through a coarse-filter and may require individual attention. Fine-

filter targets include globally imperiled species (G1 to G3G4), species at risk, endemic species, declining species, disjunct species, wide-ranging species and rare vegetation communities.

Globally Imperiled Species: have been assigned a global rank of G1 or G2 by NatureServe (www.natureserve.org).

GRank (Global Rank): The overall status of a species or ecological community is regarded as its "global" status; this range-wide assessment of condition is referred to as its global conservation status rank (GRank). Global conservation status assessments are generally carried out by NatureServe scientists with input from relevant natural heritage member programs (such as the NHIC in Ontario) and experts on particular taxonomic groups, and are based on a combination of quantitative and qualitative information. The factors considered in assessing conservation status include the total number and condition of occurrences; population size; range extent and area of occupancy; short- and long-term trends in these previous factors; scope, severity, and immediacy of threats, number of protected and managed occurrences, intrinsic vulnerability and environmental specificity.

Ranking	Definition
G1, Critically Imperiled	At very high risk of extinction due to extreme rarity (often 5 or fewer populations), very steep declines, or other factors.
G2, Imperiled	At high risk of extinction due to a very restricted range, very few populations (often 20 or fewer), steep declines, or other factors
G3, Vulnerable	At moderate risk of extinction due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors
G4, Apparently Secure	Uncommon but not rare; some cause for long-term concern due to declines or other factors
G5, Secure	Common; widespread and abundant
GH	Possibly Extinct (species)- missing; known from only historical occurrences but still some hope of rediscovery or Presumed Eliminated (historic, ecological communities)- Presumed eliminated throughout its range, with no or virtually no likelihood that it will be rediscovered but with the potential for restoration.
GX	Presumed extinct (species)- not located despite intensive searches and virtually no likelihood of rediscovery or Eliminated (ecological communities) - Eliminated throughout its range, with no restoration potential due to extinction of dominant or characteristic species
GU	Unrankable, currently unrankable due to lack of information or due to substantially conflicting information about status or trends. Whenever possible, the most likely range is assigned and the question mark qualifier is added (<i>e.g.</i> , G2?) to express uncertainty, or a range rank (<i>e.g.</i> , G2G3) is used to delineate the limits (range) or uncertainty.
?	Denotes inexact numeric rank (<i>i.e.</i> , G4?)
G?	Unranked, or, if following a ranking, rank tentatively

	assigned (<i>e.g.</i> , G3?)
Q	Questionable taxonomy- taxonomic distinctiveness of this entity at the current level is questionable
T	Denotes that the rank applies to a subspecies or variety

Limited Species: are nearly restricted to the Great Lakes ecoregion. These are species that are not "true" endemics because there may be populations outside the ecoregion. However, the core part of the species range is in the Great Lakes ecoregion.

Muskeg: this is the term used for peatlands (bogs and fens) by the Ontario Forest Resource Inventory, one of the digital mapping sources used in the analysis of the Conservation Blueprint.

NRVIS, Natural Resources and Values Information System: the Ontario government's Geographical Information System (GIS) platform for storing, maintaining and managing tabular and spatial geographic information according to province-wide standards.

Peripheral: species or ecological systems that are located closer to the outer boundaries of an ecoregion than to the centre and are not widespread throughout the ecoregion (*e.g.*, where the Great Lakes ecoregion is the extreme edge of the species' range).

Primary Target: an element of biodiversity selected as a focus for conservation planning or action. The three main types of targets are species, vegetation communities and ecological systems.

PSW, Provincially Significant Wetlands: wetlands evaluated using the Ontario Ministry of Natural Resources' Ontario Wetland Evaluation System (OWES) and determined to be of provincial significance. Provincially significant wetlands are afforded protection from development through the Provincial Policy Statement if they occur south and east of the Canadian Shield. Evaluated wetlands can occur on either Crown or private land.

Protected Areas: natural area designation that is regulated under legislation such as the National Parks Act, Provincial Parks Act or the Public Lands Act. Protected areas identified in the Great Lakes Conservation Blueprint include National Parks, National Wildlife Areas, Migratory Bird Sanctuaries, Provincial Parks and Conservation Reserves.

Rare Vegetation Communities: ecological communities that have been identified by the Natural Heritage Information Centre (NHIC) that have been ranked as provincially significant (S1, S2 or S3).

SAR, Species at Risk: species designated as Endangered, Threatened or Special Concern by either the Ontario Ministry of Natural Resources (OMNR) or the Committee on the Status of Endangered Wildlife in Canada (COSEWIC).

SARO, Species At Risk in Ontario List: list issued by the Ontario Ministry of Natural Resources. These status designations apply to the provincial level, and are used in the application of Ontario's legislation and policy for the protection of species at risk and their habitat. Ontario status designations are the product of complementary review and

assessment processes implemented at national and provincial levels. The provincial review process is implemented by the OMNR's Committee on the Status of Species at Risk in Ontario (COSSARO), which includes non-OMNR representation.

Status	Description
EXT, Extinct	A species that no longer exists anywhere
EXP, Extirpated	A species that no longer exists in the wild in Ontario but still occurs elsewhere
END-R, Endangered (Regulated)	A species facing imminent extinction or extirpation in Ontario which has been regulated under Ontario's Endangered Species Act (ESA)
END, Endangered (Not Regulated)	A species facing imminent extinction or extirpation in Ontario which is a candidate for regulation under Ontario's ESA
THR, Threatened	A species that is at risk of becoming endangered in Ontario if limiting factors are not reversed
SC, Special Concern	A species with characteristics that make it sensitive to human activities or natural events (formerly Vulnerable).
NAR, Not at Risk	A species that has been evaluated and found to be not at risk (formerly Not In Any Category).
DD, Data Deficient	A species for which there is insufficient information for a provincial status recommendation (formerly Indeterminate).

Secondary Target: an element of biodiversity (species or vegetation community) that is of some conservation concern in the Ontario portion of the Great Lakes. Occurrences of secondary biodiversity targets were included in the Conservation Blueprint portfolio where their occurrence coincided with either a primary target occurrence, a protected area or conservation land.

SRank (Provincial Rank): provincial (or subnational) ranks are used by the Ontario Natural Heritage Information Centre to set conservation priorities for rare species and vegetation communities. These ranks are not legal designations. Provincial ranks are assigned in a manner similar to that described for global ranks, but consider only those factors within the political boundaries of Ontario. Comparison of global and provincial ranks, gives an indication of the status and rarity of an element in Ontario in relation to its overall conservation status, therefore providing insight into the urgency of conservation action for it in the province. The NHIC evaluates provincial ranks on a continuous basis.

Ranking	Description
S1	Extremely rare in Ontario; usually 5 or fewer occurrences in the province or very few remaining individuals; often especially vulnerable to extirpation
S2	Very rare in Ontario; usually between 6 and 20 occurrences in the province or with many individuals in fewer occurrences; often susceptible to extirpation
S3	Rare in Ontario; usually between 21 and 100 occurrences in the province; may have fewer occurrences, but with a large number of individuals in some populations; may be susceptible to large-scale disturbances.
S4	Common and apparently secure in Ontario; usually with more than 100 occurrences in the province

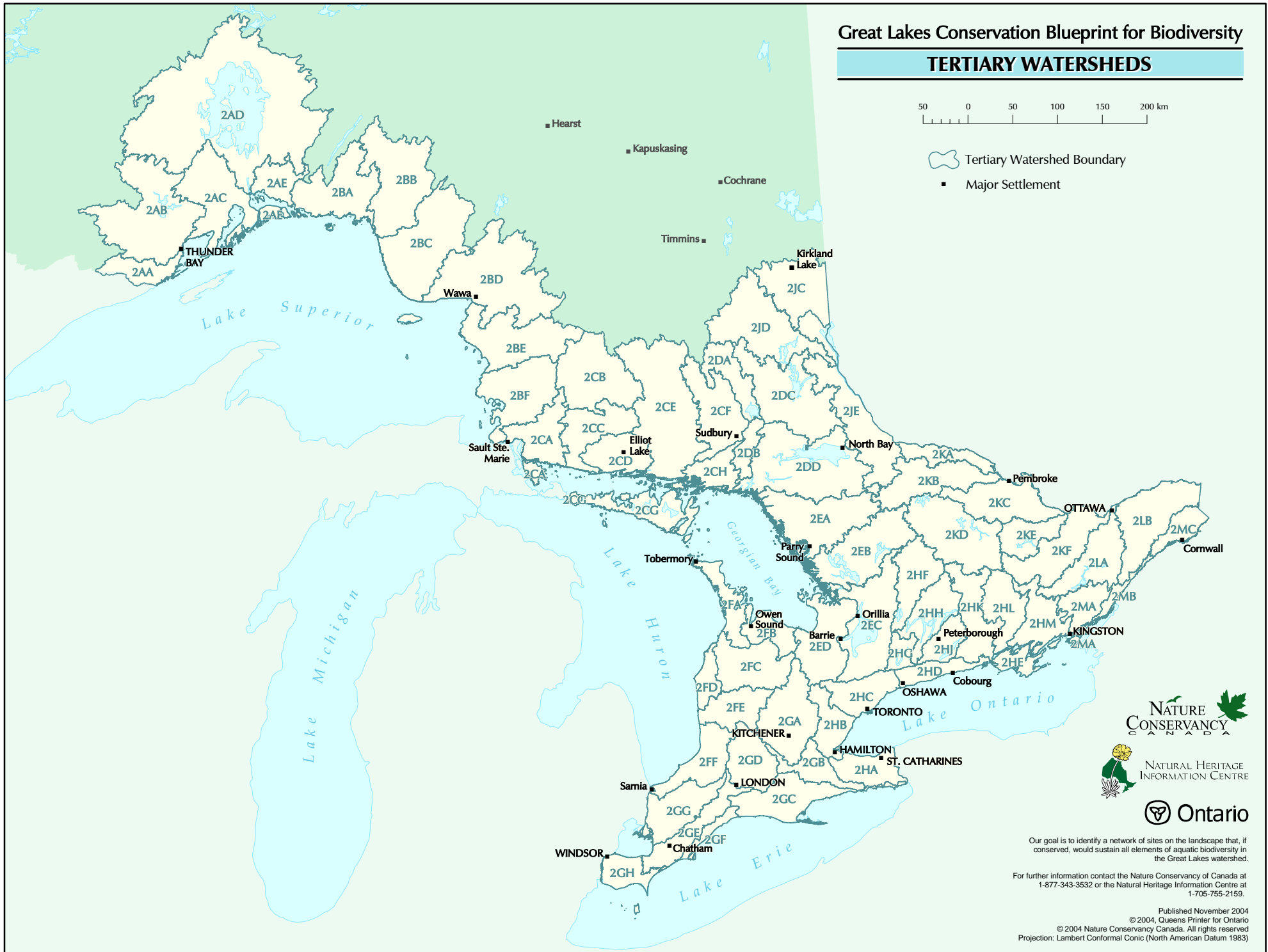
S5	Very common and demonstrably secure in Ontario
SH	Historically known from Ontario, but not verified recently (typically not recorded in the province in the last 20 years); however suitable habitat is thought to be still present in the province and there is reasonable expectation that the species may be rediscovered
C	Captive/Cultivated; existing in the province only in a cultivated state; introduced population not yet fully established and self-sustaining
S?	Not ranked yet, or if following a ranking, rank uncertain (<i>e.g.</i> , S3?). S? species have not had a numerical rank assigned
SA	Accidental; of accidental or casual occurrence in the province; far outside its normal range; some accidental species may occasionally breed in the province
SAB	Breeding accidental
SAN	Non-breeding accidental
SE	Exotic; not believed to be a native component of Ontario's flora or fauna
SR	Reported for Ontario, but without persuasive documentation which would provide a basis for either accepting or rejecting the report
SRF	Reported falsely from Ontario
SU	Unrankable, often because of low search effort or cryptic nature of the species, there is insufficient information available to assign a more accurate rank; more data is needed
SX	Apparently extirpated from Ontario, with little likelihood of rediscovery. Typically not seen in the province for many decades, despite searches at known historic sites
SZ	Not of practical conservation concern inasmuch as there are no clearly definable occurrences; applies to long distance migrants, winter vagrants, and eruptive species, which are too transitory and/or dispersed in their occurrence(s) to be reliably mapped; most such species are non-breeders, however, some may occasionally breed
SZB	Breeding migrants/vagrants
SZN	Non-breeding migrants/vagrants

Tertiary watershed: delineation of watersheds that are nesting within primary and secondary watersheds. Tertiary watersheds are convenient sizes for watershed management and planning, and are comparable to the scale of an ecodistrict.

Wide-ranging species: are highly mobile species that require large tracts of habitat for their survival. These include top-level predators, migratory mammals, birds and insects. The design of fully functioning networks of conservation sites needs to take into account the habitat requirements of such species, including factors such as linkages, natural corridors, interior habitats and roadless areas.

Widespread: species or ecological systems occurring naturally throughout the Great Lakes ecoregion and considerably beyond the ecoregion.

TERTIARY WATERSHEDS



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

For further information contact the Nature Conservancy of Canada at
1-877-343-3532 or the Natural Heritage Information Centre at
1-705-755-2159.

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Aquatic Ecological Systems

ID	Name	Target
Coastal Systems		
101	Abrupt shoreline gradient intersected by small streams	Yes
102	Abrupt shoreline gradient intersected by large streams	Yes
103	Abrupt shoreline gradient intersected by large and small streams	Yes
104	Abrupt shoreline gradient intersected by no streams	Yes
105	Gently sloping shoreline gradient intersected by small streams	Yes
106	Gently sloping shoreline gradient intersected by large streams	Yes
107	Gently sloping shoreline gradient intersected by large and small streams	Yes
108	Gently sloping shoreline gradient intersected by no streams	Yes
109	Low riverine coastal plain intersected by small streams	Yes
110	Low riverine coastal plain intersected by large streams	Yes
111	Low riverine coastal plain intersected by large and small streams	Yes
112	Low riverine coastal plain intersected by no streams	Yes
113	Open shoreline wetlands intersected by small streams	Yes
114	Open shoreline wetlands intersected by large streams	Yes
115	Open shoreline wetlands intersected by large and small streams	Yes
116	Open shoreline wetlands intersected by no streams	Yes
117	Semi-protected wetlands intersected by small streams	Yes
118	Semi-protected wetlands intersected by large streams	Yes
119	Semi-protected wetlands intersected by large and small streams	Yes
120	Semi-protected wetlands intersected by no streams	Yes
121	Artificial or unclassified intersected by small streams	No
122	Artificial or unclassified intersected by large streams	No
123	Artificial or unclassified intersected by large and small streams	No
124	Artificial or unclassified intersected by no streams	No
125	High permeability coastal area	Yes
126	Intermediate permeability coastal area	Yes
127	Low permeability coastal area	Yes
Stream Systems		
201	Headwaters with high permeability, steep gradient and high water storage potential	Yes
202	Headwaters with high permeability, steep gradient and low water storage potential	Yes
203	Headwaters with high permeability, medium gradient and high water storage potential	Yes
204	Headwaters with medium permeability, steep gradient and high water storage potential	Yes
205	Headwaters with high permeability, gentle gradient and high water storage potential	Yes
206	Headwaters with high permeability, medium gradient and low water storage potential	Yes
207	Headwaters with medium permeability, steep gradient and low water storage potential	Yes
208	Headwaters with medium permeability, medium gradient and high water storage potential	Yes
209	Headwaters with low permeability, steep gradient and high water storage potential	Yes
210	Headwaters with medium permeability, medium gradient and low water storage potential	Yes
211	Headwaters with medium permeability, gentle gradient and high water storage potential	Yes
212	Headwaters with low permeability, steep gradient and low water storage potential	Yes
213	Headwaters with low permeability, medium gradient and high water storage potential	Yes
214	Headwaters with low permeability, gentle gradient and high water storage potential	Yes
215	Headwaters with high permeability, gentle gradient and low water storage potential	Yes
216	Headwaters with medium permeability, gentle gradient and low water storage potential	Yes
217	Headwaters with low permeability, medium gradient and low water storage potential	Yes

ID	Name	Target
Stream Systems continued		
218	Headwaters with low permeability, gentle gradient and low water storage potential	Yes
219	Middle tributary with low permeability, gentle gradient and low water storage potential	Yes
220	Middle tributary with low permeability, medium gradient and low water storage potential	Yes
221	Middle tributary with low permeability, gentle gradient and high water storage potential	Yes
222	Middle tributary with medium permeability, gentle gradient and low water storage potential	Yes
223	Middle tributary with low permeability, steep gradient and low water storage potential	Yes
224	Middle tributary with high permeability, gentle gradient and low water storage potential	Yes
225	Middle tributary with medium permeability, medium gradient and low water storage potential	Yes
226	Middle tributary with medium permeability, gentle gradient and high water storage potential	Yes
227	Middle tributary with low permeability, medium gradient and high water storage potential	Yes
228	Middle tributary with low permeability, steep gradient and high water storage potential	Yes
229	Middle tributary with medium permeability, steep gradient and low water storage potential	Yes
230	Middle tributary with high permeability, medium gradient and low water storage potential	Yes
231	Middle tributary with high permeability, gentle gradient and high water storage potential	Yes
232	Middle tributary with high permeability, steep gradient and low water storage potential	Yes
233	Middle tributary with medium permeability, medium gradient and high water storage potential	Yes
234	Middle tributary with medium permeability, steep gradient and high water storage potential	Yes
235	Middle tributary with high permeability, medium gradient and high water storage potential	Yes
236	Middle tributary with high permeability, steep gradient and high water storage potential	Yes
237	Mainstem with high permeability, steep gradient and high water storage potential	Yes
238	Mainstem with high permeability, medium gradient and high water storage potential	Yes
239	Mainstem with high permeability, steep gradient and low water storage potential	Yes
240	Mainstem with medium permeability, steep gradient and high water storage potential	Yes
241	Mainstem with high permeability, gentle gradient and high water storage potential	Yes
242	Mainstem with low permeability, steep gradient and high water storage potential	Yes
243	Mainstem with high permeability, medium gradient and low water storage potential	Yes
244	Mainstem with medium permeability, medium gradient and high water storage potential	Yes
245	Mainstem with medium permeability, steep gradient and low water storage potential	Yes
246	Mainstem with high permeability, gentle gradient and low water storage potential	Yes
247	Mainstem with medium permeability, gentle gradient and high water storage potential	Yes
248	Mainstem with low permeability, medium gradient and high water storage potential	Yes
249	Mainstem with low permeability, steep gradient and low water storage potential	Yes
250	Mainstem with low permeability, gentle gradient and high water storage potential	Yes
251	Mainstem with medium permeability, medium gradient and low water storage potential	Yes
252	Mainstem with medium permeability, gentle gradient and low water storage potential	Yes
253	Mainstem with low permeability, medium gradient and low water storage potential	Yes
254	Mainstem with low permeability, gentle gradient and low water storage potential	Yes
Lake Systems		
301	Large, unconnected, irregular shape, with high permeability	Yes
302	Large, connected, irregular shape, with high permeability	Yes
303	Large, unconnected, irregular shape, with medium permeability	Yes
304	Large, unconnected, round shape, with high permeability	Yes
305	Large, unconnected, irregular shape, with low permeability	Yes
306	Large, connected, irregular shape, with medium permeability	Yes
307	Large, connected, round shape, with high permeability	Yes
308	Large, unconnected, round shape, with medium permeability	Yes

ID	Name	Target
Lake Systems continued		
309	Large, connected, irregular shape, with low permeability	Yes
310	Large, unconnected, round shape, with low permeability	Yes
311	Large, connected, round shape, with medium permeability	Yes
312	Large, connected, round shape, with low permeability	Yes
313	Medium size, connected, round shape, with low permeability	Yes
314	Medium size, connected, round shape, with medium permeability	Yes
315	Medium size, connected, irregular shape, with low permeability	Yes
316	Medium size, unconnected, round shape, with low permeability	Yes
317	Medium size, connected, irregular shape, with medium permeability	Yes
318	Medium size, unconnected, round shape, with medium permeability	Yes
319	Medium size, connected, round shape, with high permeability	Yes
320	Medium size, unconnected, irregular shape, with low permeability	Yes
321	Medium size, unconnected, irregular shape, with medium permeability	Yes
322	Medium size, connected, irregular shape, with high permeability	Yes
323	Medium size, unconnected, round shape, with high permeability	Yes
324	Medium size, unconnected, irregular shape, with high permeability	Yes
325	Small, unconnected, irregular shape, with high permeability	Yes
326	Small, connected, irregular shape, with high permeability	Yes
327	Small, unconnected, irregular shape, with medium permeability	Yes
328	Small, unconnected, round shape, with high permeability	Yes
329	Small, unconnected, irregular shape, with low permeability	Yes
330	Small, connected, irregular shape, with medium permeability	Yes
331	Small, connected, round shape, with high permeability	Yes
332	Small, unconnected, round shape, with medium permeability	Yes
333	Small, connected, irregular shape, with low permeability	Yes
334	Small, unconnected, round shape, with low permeability	Yes
335	Small, connected, round shape, with medium permeability	Yes
336	Small, connected, round shape, with low permeability	Yes
Wetland Systems		
401	Small, unconnected marsh	Yes
402	Small, connected marsh	Yes
403	Large, unconnected marsh	Yes
404	Large, connected marsh	Yes
405	Unconnected swamp	Yes
406	Connected swamp	Yes
407	Unconnected fen	Yes
408	Connected fen	Yes
409	Unconnected bog	Yes
410	Connected bog	Yes
411	Large unconnected muskeg	No
412	Large connected muskeg	No

Arrow

Tertiary Watershed 2AA

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area: 197,179 hectares (487,230 acres)

Land Ownership: Crown Land ~ 60%
Private Land ~ 33%
First Nation Lands ~ 7%

Planning Authority: 100% Thunder Bay District

General Description:

This relatively small tertiary watershed drains into northwestern Lake Superior and includes Pie Island. There are approximately 6,200 hectares of coastal areas, 174,000 hectares of stream systems, 6,600 hectares of lakes and 7,200 hectares of wetlands. The watershed consists primarily of natural forest cover, dominated by dense deciduous forest and mixed deciduous forest. Some dense and sparse coniferous forests, as well as sparse deciduous forests, are scattered throughout the watershed. Small amounts of treed fen, open bog and treed bog are also present.

Land Use:

A small amount of developed land and pasture is found in the eastern portion of this watershed. There is also evidence of recent and previous forestry activity. Settlements in the watershed include Suomi, Gillies, South Gillies and Cloud Bay.

Protection and Conservation:

The combined area of protected lands in tertiary watershed 2AA is 14,383 hectares, which makes up approximately 7.3% of the watershed's total area. The majority (13,959 hectares) of these protected lands are provincial parks and conservation reserves. There are 10,699 hectares of protected stream



systems, 924 hectares of protected coastal areas, 911 hectares of protected lakes and 1,080 hectares of protected wetlands.

Species and Vegetation Community Targets:

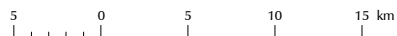
Three species targets have been confirmed in this watershed; the primary biodiversity targets are Creeping Rush (*Juncus subtilis*) and Extra-striped Snake Tail (*Ophiogomphus anomalus*) and the secondary target is Black Tern (*Chlidonias niger*). These species do not occur within protected areas or designated conservation lands within the watershed. Boreal Open Seepage Fen Type is the one rare vegetation community documented in watershed 2AA. No occurrences of this vegetation community type are known from protected areas or conservation lands in the watershed.

Conservation Blueprint:

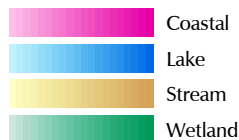
The Conservation Blueprint includes 75,151 hectares of stream systems, 2,149 hectares of coastal areas, 5,033 hectares of lakes and 1,108 hectares of wetlands. The Conservation Blueprint includes the Boreal Open Seepage Fen Type vegetation community as well as the occurrences of the primary species targets Creeping Rush and Extra-striped Snaketail.

Great Lakes Conservation Blueprint for Biodiversity

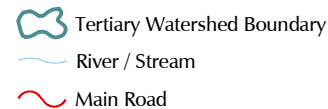
ARROW WATERSHED 2AA



Aquatic Ecological Systems



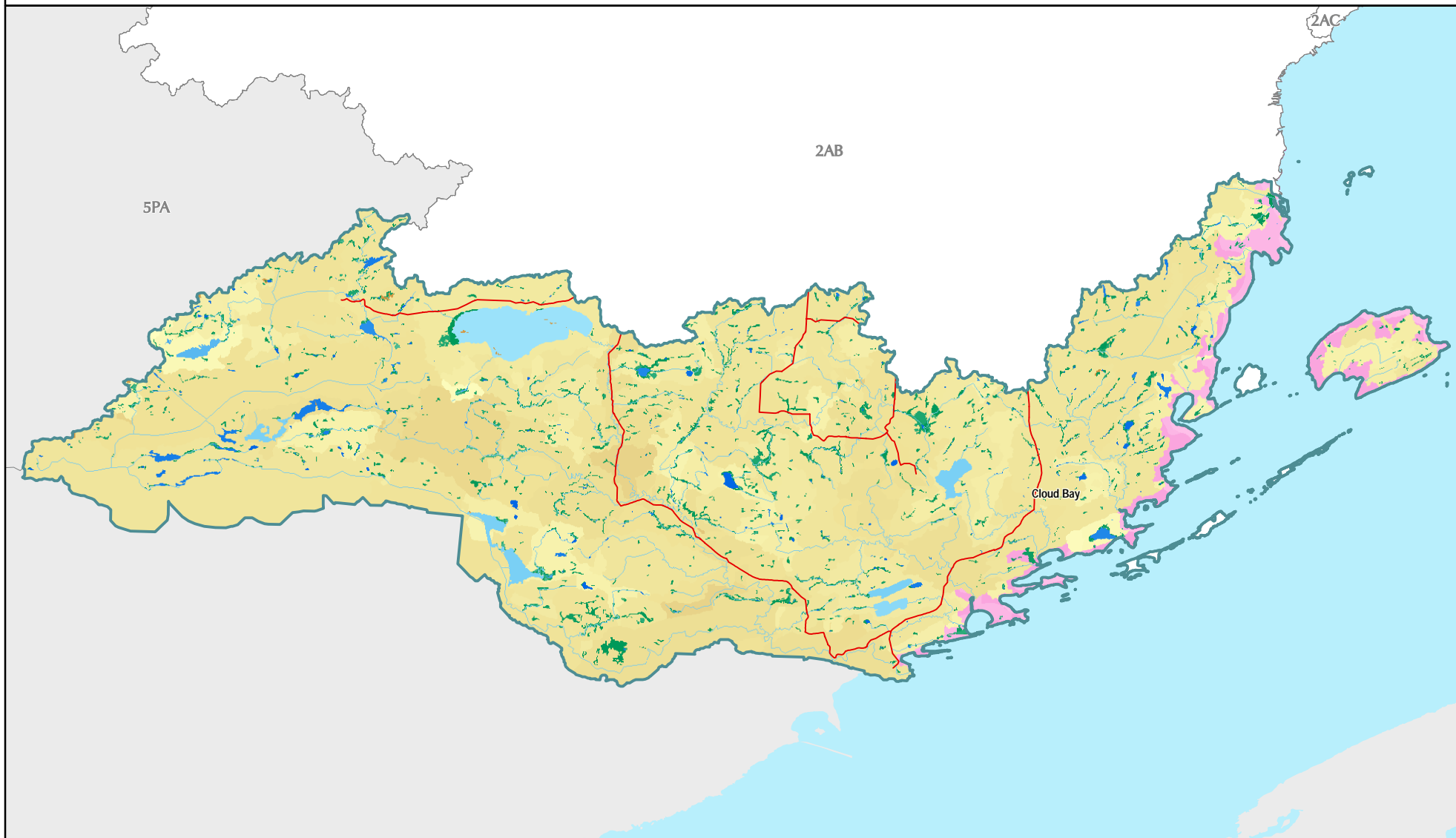
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

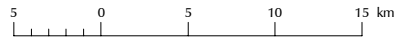
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Great Lakes Conservation Blueprint for Biodiversity

ARROW WATERSHED 2AA



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

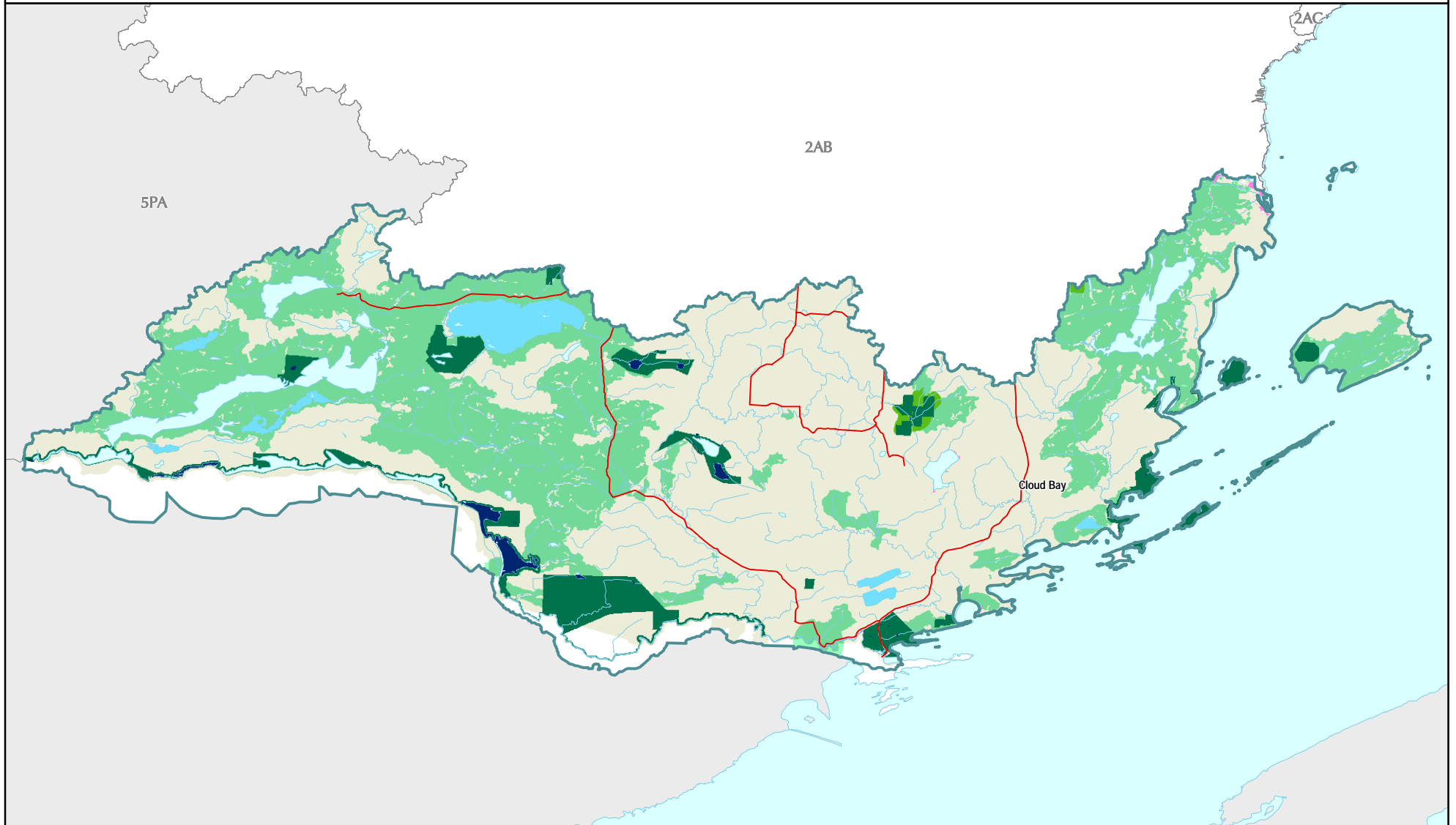
- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Documented extant vegetation communities and significant species information for tertiary watershed 2AA

Number of pops in 2AA	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species												
1	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	0	0	0	secondary
1	<i>Ophiogomphus anomalus</i>	Extra-striped Snaketail	G3	S2			GRank	0	0	1	100	4
1	<i>Juncus subtilis</i>	Creeping Rush	G3	S3			GRank	0	0	1	100	2
Communities												
1	Boreal Open Seepage Fen Type		G2Q	S2S3			GRank	0	0	1	100	all viable

Ecological systems summary for tertiary watershed 2AA

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	7302.44	3.70	923.88	12.65	2263.44	31.00	2243.69	30.73
Stream Systems	174726.19	88.61	10699.25	6.12	75151.06	43.01	74780.38	42.80
Lake Systems	6678.44	3.39	911.06	13.64	5033.38	75.37	5033.38	75.37
Wetland Systems	7264.44	3.68	1080.38	14.87	1108.25	15.26	1108.25	15.26
Tertiary watershed	197179.19	100.00	14383.25	7.29	84324.88	42.77	83934.38	42.57

Ecological systems details for tertiary watershed 2AA

System Integer	# of patches in 2AA	Total area (ha) in 2AA	% of total area in 2AA	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																
Coastal Systems																
101	3	28.31	0.01			0.00			0.00			0.00	3	28.38	28.38	100.00
104	61	152.44	0.08	18	39.44	25.87			0.00	18	39.44	25.87	22	50.19	50.19	32.92
105	23	134.81	0.07	3	15.00	11.13			0.00	3	15.00	11.13	6	24.00	24.00	17.80
106	2	8.00	0.00			0.00			0.00			0.00	2	8.13	8.13	100.00
107	6	22.31	0.01	4	0.31	1.40			0.00	4	0.31	1.40	5	22.06	22.06	98.88
108	67	320.19	0.16	18	77.75	24.28			0.00	18	77.75	24.28	22	82.25	82.25	25.69
113	5	29.75	0.02	2	18.69	62.82			0.00	2	18.69	62.82	3	29.69	29.69	99.79
116	10	19.75	0.01	1	0.75	3.80			0.00	1	0.75	3.80	3	9.75	9.75	49.37
125	47	3332.19	1.69	13	493.88	14.82			0.00	13	493.88	14.82	23	1112.69	1110.81	33.39
126	2	8.56	0.00	1	0.19	2.19			0.00	1	0.19	2.19	1	0.19	0.19	2.19
127	33	2193.50	1.11	19	161.69	7.37			0.00	19	161.69	7.37	20	779.94	762.06	35.56
199	69	1037.94	0.53	17	114.25	11.01			0.00	17	114.25	11.01	22	114.25	114.25	11.01

System Integer	# of patches in 2AA	Total area (ha) in 2AA	% of total area in 2AA	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Stream Systems																
201	5	264.63	0.13			0.00			0.00			0.00	2	264.38	264.38	99.91
202	2	224.44	0.11			0.00			0.00			0.00	2	224.44	224.44	100.00
203	13	1846.25	0.94	2	3.50	0.19			0.00	2	3.50	0.19	5	1845.31	1845.00	99.95
205	2	23.06	0.01			0.00			0.00			0.00				0.00
206	22	1346.56	0.68	11	39.94	2.97			0.00	11	39.94	2.97	30	1078.00	1058.31	80.06
207	5	549.81	0.28	3	4.88	0.89			0.00	3	4.88	0.89	5	549.69	549.69	99.98
208	31	2330.06	1.18	26	79.19	3.40			0.00	26	79.19	3.40	34	2266.38	2266.38	97.27
209	47	5712.81	2.90	20	705.25	12.35			0.00	20	705.25	12.35	23	2196.19	2196.19	38.44
210	18	3689.13	1.87	6	266.63	7.23			0.00	6	266.63	7.23	7	1624.19	1621.06	44.03
211	12	675.44	0.34	7	229.13	33.92			0.00	7	229.13	33.92	12	523.75	523.75	77.54
212	81	10438.88	5.29	14	630.50	6.04			0.00	14	630.50	6.04	30	2089.50	2089.50	20.02
213	51	10435.31	5.29	23	421.31	4.04	1	32.06	0.31	23	451.56	4.33	24	1869.00	1869.00	17.91
214	26	6706.44	3.40	12	956.00	14.25	2	313.19	4.67	12	1114.06	16.61	23	6673.94	6668.19	99.52
215	5	915.69	0.46			0.00			0.00			0.00	4	902.56	783.19	98.57
216	12	1449.19	0.73	1	52.81	3.64			0.00	1	52.81	3.64	10	602.13	576.56	41.55
217	152	50411.94	25.57	40	3065.56	6.08	1	1.06	0.00	40	3065.81	6.08	66	4847.50	4847.50	9.62
218	89	27187.25	13.79	25	2529.88	9.31	4	221.00	0.81	28	2662.44	9.79	56	16464.94	16459.56	60.56
219	35	21018.25	10.66	14	539.50	2.57	6	104.06	0.50	16	577.69	2.75	23	14322.44	14322.44	68.14
220	57	19530.44	9.90	54	798.56	4.09			0.00	54	798.56	4.09	80	7158.50	6967.00	36.65
221	4	2089.88	1.06			0.00			0.00			0.00	5	2089.75	2089.75	99.99
222	5	931.50	0.47			0.00			0.00			0.00	5	789.38	789.38	84.74
223	5	521.88	0.26	2	2.13	0.41			0.00	2	2.13	0.41	3	503.00	503.00	96.38
224	2	86.44	0.04			0.00			0.00			0.00	2	86.44	86.44	100.00
225	5	4460.31	2.26			0.00			0.00			0.00	6	4455.50	4455.50	99.89
227	6	1724.75	0.87	1	15.19	0.88			0.00	1	15.19	0.88	2	1724.19	1724.19	99.97
228	1	46.19	0.02			0.00			0.00			0.00				0.00
230	1	16.19	0.01			0.00			0.00			0.00				0.00
231	1	24.50	0.01			0.00			0.00			0.00				0.00
232	1	0.25	0.00			0.00			0.00			0.00				0.00
235	1	11.75	0.01			0.00			0.00			0.00				0.00
250	6	0.81	0.00			0.00			0.00			0.00				0.00
Lake Systems																
309	5	2865.94	1.45			0.00			0.00			0.00	1	2865.25	2865.25	99.98
313	1	218.81	0.11			0.00			0.00			0.00	1	218.81	218.81	100.00
315	6	1458.81	0.74	2	628.56	43.09			0.00	2	628.56	43.09	5	1056.50	1056.50	72.42

System Integer	# of patches in ZAA	Total area (ha) in ZAA	% of total area in ZAA	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Lake Systems continued																
322	1	209.00	0.11			0.00			0.00			0.00	1	209.00	209.00	100.00
326	25	32.75	0.02	3	1.94	5.92			0.00	3	1.94	5.92	3	1.94	1.94	5.92
328	5	2.31	0.00	1	0.25	10.81			0.00	1	0.25	10.81	1	0.25	0.25	10.81
329	11	10.81	0.01	3	1.63	15.03			0.00	3	1.63	15.03	4	1.63	1.63	15.03
330	13	121.44	0.06			0.00			0.00			0.00	4	5.00	5.00	4.12
331	27	215.44	0.11	2	55.25	25.65			0.00	2	55.25	25.65	3	161.75	161.75	75.08
333	149	894.00	0.45	13	69.56	7.78			0.00	13	69.56	7.78	29	352.44	352.44	39.42
334	8	26.00	0.01	1	0.44	1.68			0.00	1	0.44	1.68	1	0.44	0.44	1.68
335	18	91.44	0.05	2	20.13	22.01			0.00	2	20.13	22.01	4	22.19	22.19	24.27
336	225	522.69	0.27	14	129.88	24.85	1	3.44	0.66	15	133.31	25.51	18	138.19	138.19	26.44
Wetland Systems																
407	26	93.00	0.05	10	30.88	33.20			0.00	10	30.88	33.20	10	32.56	32.56	35.01
408	63	253.56	0.13	7	34.94	13.78			0.00	7	34.94	13.78	11	47.25	47.25	18.63
409	122	367.25	0.19	23	125.38	34.14	3	22.06	6.01	23	125.38	34.14	27	135.56	135.56	36.91
410	126	696.63	0.35	14	198.88	28.55	2	99.25	14.25	14	217.44	31.21	14	221.13	221.13	31.74
Non-Target Ecological Systems																
Coastal Systems																
124	9	14.69	0.01	2	1.94	13.19			0.00	2	1.94	13.19	10	1.94	1.94	13.19
Wetland Systems																
411	484	1103.31	0.56	61	183.94	16.67	5	9.31	0.84	61	188.25	17.06	70	188.25	188.25	17.06
412	912	4750.69	2.41	74	445.25	9.37	8	121.63	2.56	74	483.50	10.18	87	483.50	483.50	10.18
Unclassified Ecological Systems																
2	3	56.19	0.03			0.00			0.00			0.00				0.00
3	2	9.00	0.00			0.00			0.00			0.00				0.00
5	203	1082.50	0.55	30	765.13	70.68	1	205.38	18.97	30	765.13	70.68	34	765.19	765.13	70.69
6	219	125.19	0.06	15	3.56	2.85			0.00	15	3.56	2.85	16	3.56	3.56	2.85

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Dog

Tertiary Watershed 2AB

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area: 887,071 hectares (2,191,953 acres)

Land Ownership: Crown Land ~ 69%
Private Land ~ 30%
First Nation Lands ~ 1%

Planning Authority: 100% Thunder Bay District

General Description:

This tertiary watershed flows into the northwest corner of Lake Superior. The watershed is comprised of approximately 560 hectares of coastal systems, 786,345 hectares of stream systems, 48,503 hectares of lakes and 46,040 hectares of wetlands. Large water bodies include Dog Lake, Dog River and Current River. Note that Dog Lake is not shown as a lake systems on the corresponding tertiary watershed ecological systems map because it was not classified as such in the base data. Much of the watershed remains in an undisturbed natural state, with dense deciduous forests and mixed deciduous forests dominant throughout the area. Dense and sparse coniferous forests occur in the northern portions of the catchment, while sparse deciduous forests occur in the south. Small numbers of treed fens are scattered throughout the watershed, while treed and open bogs are limited to the northern reaches.

Land Use:

Watershed 2AB contains the city of Thunder Bay and a number of smaller settlements, such as Kashabowie, Shebandowan, Finmark and Lappe. Human impact is most obvious around the city of Thunder Bay, at the southern end of the watershed. Developed land extends north from the city. Pasture and abandoned fields are present in the southern third of the watershed. Evidence of forestry, in the form of recent and old cutovers, is also present.



Protection and Conservation:

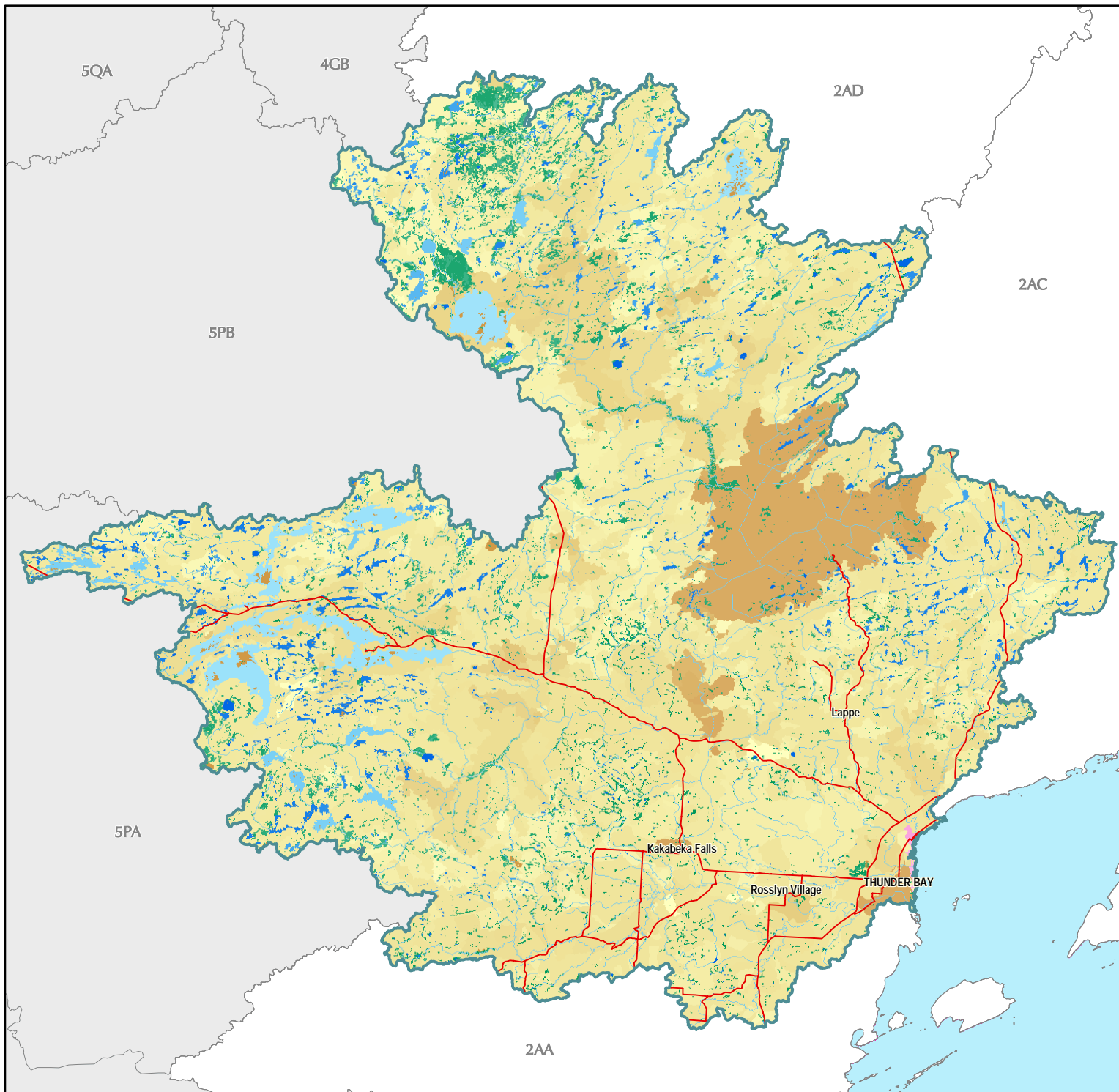
The combined area of protected and conservation lands in tertiary watershed 2AB is 16,240 hectares and contributes to approximately 1.8% of the watershed's total area. The majority of this protected land (14,651 ha) occurs as provincial parks. There are 13,726 hectares of protected stream systems, 767 hectares of protected lakes and 1,707 hectares of protected wetlands. No coastal systems are considered protected in the watershed.

Species and Vegetation Community Targets:

Five species targets have been confirmed in watershed 2AB; the primary targets are Auricled Twayblade (*Listera auriculata*), Creeping Rush (*Juncus subtilis*), Extra-striped Snaketail (*Ophiogomphus anomalus*), and Ram's-head Lady's-slipper (*Cypripedium arietinum*). Bald Eagle (*Haliaeetus leucocephalus*), a secondary target, also occurs in the watershed. The Auricled Twayblade is found within a Conservation Authority area. There are no documented occurrences of rare vegetation communities in this tertiary watershed.

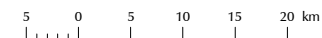
Conservation Blueprint:

The Conservation Blueprint includes 231 hectares of coastal areas, 132,000 hectares of stream systems, 15,443 hectares of lakes and 4,323 hectares of wetlands. The Conservation Blueprint also includes occurrences for Ram's-head Lady's-slipper, Creeping Rush, Auricled Twayblade and Extra-striped Snaketail.

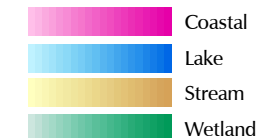


Great Lakes Conservation Blueprint for Biodiversity

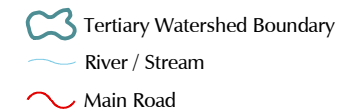
DOG WATERSHED 2AB



Aquatic Ecological Systems



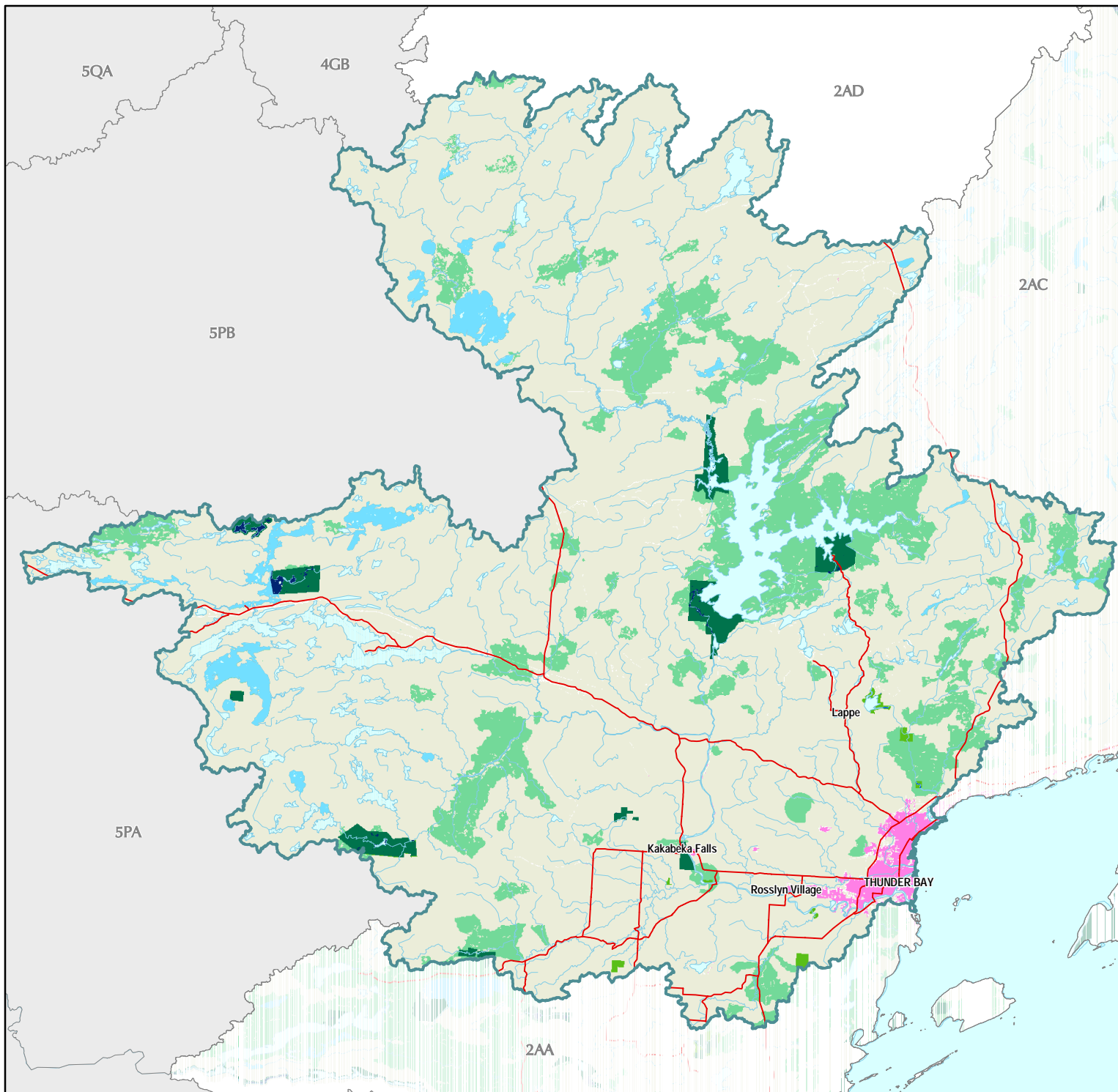
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

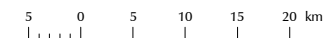
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Great Lakes Conservation Blueprint for Biodiversity

DOG WATERSHED 2AB



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Documented extant significant species information for tertiary watershed 2AB

Number of pops in 2AB	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in CAs	% of pops in CAs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species														
1	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S4B,SZN	NAR	END-R	SAR	0	0	0	0	0	0	secondary
1	<i>Ophiogomphus anomalus</i>	Extra-striped Snaketail	G3	S2			GRank	0	0	0	0	1	100	4
1	<i>Juncus subtilis</i>	Creeping Rush	G3	S3			GRank	0	0	0	0	1	100	2
3	<i>Cypripedium arietinum</i>	Ram's-head Lady's-slipper	G3	S3			GRank	0	0	0	0	2	66	2
1	<i>Listera auriculata</i>	Auricled Twayblade	G3	S3			GRank	1	100	1	100	1	100	2

Ecological systems summary for tertiary watershed 2AB

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	673.00	0.08	0.00	0.00	231.19	34.35	53.19	7.90
Stream Systems	789117.06	88.96	13726.31	1.74	132000.44	16.73	131533.88	16.67
Lake Systems	48506.75	5.47	767.06	1.58	15443.63	31.84	15443.63	31.84
Wetland Systems	46040.81	5.19	1707.25	3.71	4323.25	9.39	4323.25	9.39
Tertiary watershed	887071.31	100.00	16240.75	1.83	152038.69	17.14	151394.13	17.07

Ecological systems details for tertiary watershed 2AB

System Integer	# of patches in 2AB	Total area (ha) in 2AB	% of total area in 2AB	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	# of patches in CA lands	Total area (ha) in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																	
Coastal Systems																	
105	3	10.19	0.00			0.00							0.00	3	10.31	10.31	100
106		8.38	0.00			0.00							0.00	2	8.44	8.44	100
108	8	15.00	0.00			0.00							0.00	3	8.81	8.81	58.75
113	2	12.63	0.00			0.00							0.00	3	12.81	12.81	100
116	2	9.69	0.00			0.00							0.00	2	9.81	9.81	100
125	2	177.31	0.02			0.00							0.00	1	177.00		99.82
127	22	242.56	0.03			0.00							0.00	12	4.00	3.00	1.65
199	28	112.81	0.01			0.00							0.00				0.00

System Integer	# of patches in 2AB	Total area (ha) in 2AB	% of total area in 2AB	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	# of patches in CA lands	Total area (ha) in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																	
Stream Systems																	
201	6	167.56	0.02			0.00							0.00	5	110.00	110.00	65.65
202	11	1071.38	0.12	1	249.31	23.27					1	249.31	23.27	18	589.88	589.88	55.06
203	149	14307.00	1.61	7	91.75	0.64			1	12.19	7	91.75	0.64	12	795.19	795.19	5.56
204	5	287.75	0.03			0.00							0.00	3	287.50	287.50	99.91
205	189	19024.69	2.14	9	501.06	2.63			7	443.19	9	506.31	2.66	14	1979.88	1979.88	10.41
206	81	15688.44	1.77	3	44.50	0.28			3	59.31	4	81.25	0.52	16	3409.94	3408.56	21.74
207	17	1401.25	0.16			0.00							0.00	4	694.81	694.81	49.59
208	257	44264.25	4.99	22	844.06	1.91			5	476.25	22	858.13	1.94	31	1599.75	1599.75	3.61
209	44	5852.44	0.66	2	20.13	0.34					2	20.13	0.34	12	1464.13	1464.13	25.02
210	140	46624.44	5.26	12	209.56	0.45			6	61.81	12	221.00	0.47	20	2434.25	2423.75	5.22
211	189	31984.88	3.61	11	1089.63	3.41			8	564.69	11	1089.75	3.41	12	1690.13	1690.13	5.28
212	154	20317.69	2.29	1	66.81	0.33	1	28.50			2	95.31	0.47	9	978.69	978.69	4.82
213	462	115575.13	13.03	28	1053.31	0.91			7	30.19	28	1053.31	0.91	44	2738.88	2738.88	2.37
214	426	100129.06	11.29	27	2335.13	2.33	2	64.50	5	654.38	28	2408.13	2.41	58	5203.00	5203.00	5.20
215	43	1945.31	0.22			0.00			1	10.81	1	10.81	0.56	7	1125.50	1125.50	57.86
216	44	10644.81	1.20			0.00			1	507.69	1	507.69	4.77	6	2519.50	2519.50	23.67
217	398	129756.25	14.63	5	109.31	0.08	2	455.38	3	38.63	10	603.31	0.46	16	1917.94	1917.94	1.48
218	177	38436.38	4.33	6	64.06	0.17	1	0.06			7	64.13	0.17	41	5764.00	5701.19	15.00
219	36	13500.75	1.52			0.00	3	36.88	1	125.13	4	162.00	1.20	11	2975.88	2975.88	22.04
220	70	19024.88	2.14	3	285.25	1.50	1	11.19	1	14.94	5	311.38	1.64	20	5323.69	5319.38	27.98
221	104	36667.25	4.13	9	30.50	0.08					9	30.50	0.08	29	10674.75	10674.75	29.11
222	26	12658.75	1.43	1	146.19	1.15					1	146.19	1.15	5	9545.00	9504.38	75.40
223	12	770.19	0.09			0.00							0.00	6	554.75	554.75	72.03
224	6	855.13	0.10			0.00							0.00	3	779.19	762.75	91.12
225	13	5044.44	0.57			0.00			2	168.56	2	168.56	3.34	9	3600.94	3588.06	71.38
226	66	26689.25	3.01	13	428.50	1.61					13	428.50	1.61	21	2022.88	2022.88	7.58
227	17	9275.00	1.05			0.00							0.00	3	3805.31	3740.38	41.03
228	1	55.06	0.01	1	55.06	100.00					1	55.06	100.00	7	55.06	55.06	100.00
229	6	122.94	0.01			0.00			1	0.63	1	0.63	0.51	4	82.06	72.94	66.75
230	11	149.00	0.02	4	6.06	4.07					4	6.06	4.07	9	6.06	6.06	4.07
231	35	4566.25	0.51	10	80.63	1.77	1	6.06			11	86.69	1.90	23	2748.19	2746.81	60.18
232	3	46.56	0.01			0.00							0.00				0.00
233	17	1680.63	0.19			0.00							0.00	4	1183.13	1162.88	70.40

System Integer	# of patches in 2AB	Total area (ha) in 2AB	% of total area in 2AB	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	# of patches in CA lands	Total area (ha) in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																	
Stream Systems continued																	
235	7	1836.94	0.21			0.00							0.00	4	1762.69	1734.25	95.96
236	1	2.94	0.00			0.00							0.00				0.00
239	1	8.25	0.00			0.00							0.00				0.00
242	3	111.44	0.01	3	111.44	100.00					3	111.44	100.00	3	111.44	111.44	100.00
243	6	1242.63	0.14	1	91.38	7.35					1	91.38	7.35	3	1242.38	1241.69	99.98
244	7	716.06	0.08	6	308.06	43.02					6	308.06	43.02	10	716.06	716.06	100.00
246	2	3.19	0.00			0.00							0.00				0.00
247	11	1555.50	0.18	8	163.06	10.48					8	163.06	10.48	15	163.06	163.06	10.48
248	13	860.94	0.10	15	361.56	42.00					15	361.56	42.00	20	617.69	617.69	71.75
250	44	48226.13	5.44	33	3409.75	7.07					33	3409.75	7.07	55	45572.13	45392.31	94.50
251	1	93.63	0.01			0.00							0.00	1	93.63	93.63	100.00
252	1	5.13	0.00			0.00							0.00				0.00
253	6	726.63	0.08	4	21.13	2.91					4	21.13	2.91	8	692.25	688.06	95.27
254	6	2371.63	0.27	2	3.88	0.16					2	3.88	0.16	7	2369.13	2360.31	99.89
Lake Systems																	
306	7	3483.75	0.39			0.00							0.00	2	3482.88	3482.88	99.97
309	15	14844.44	1.67	1	274.56	1.85					1	274.56	1.85	11	7317.00	7317.00	49.29
315	25	4994.25	0.56			0.00							0.00	9	733.06	733.06	14.68
317	5	848.94	0.10			0.00							0.00	3	848.81	848.81	99.99
319	1	260.88	0.03			0.00							0.00	1	260.88	260.88	100.00
322	2	577.81	0.07			0.00							0.00	2	577.81	577.81	100.00
325	40	143.13	0.02	10	5.25	3.67					10	5.25	3.67	11	5.25	5.25	3.67
326	349	3110.25	0.35	15	75.06	2.41			7	14.19	15	75.06	2.41	21	479.31	479.31	15.41
327	9	16.56	0.00			0.00							0.00				0.00
328	77	95.31	0.01	7	1.38	1.44			3	0.88	7	1.38	1.44	11	5.38	5.38	5.64
329	31	124.88	0.01	2	0.19	0.15					2	0.19	0.15	9	3.06	3.06	2.45
330	265	2477.81	0.28	5	24.06	0.97					5	24.06	0.97	18	441.81	441.81	17.83
331	480	1358.50	0.15	9	16.63	1.22			5	11.63	10	18.25	1.34	12	126.69	126.69	9.33
332	52	32.31	0.00			0.00							0.00				0.00
333	1148	11479.50	1.29	22	311.81	2.72			6	16.19	26	326.38	2.84	64	652.75	652.75	5.69
334	134	145.94	0.02	5	0.75	0.51					5	0.75	0.51	10	5.19	5.19	3.55
335	305	713.25	0.08	2	16.63	2.33					2	16.63	2.33	3	18.25	18.25	2.56
336	1575	3796.19	0.43	16	24.56	0.65			3	7.19	16	24.56	0.65	27	485.50	485.50	12.79

System Integer	# of patches in 2AB	Total area (ha) in 2AB	% of total area in 2AB	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	# of patches in CA lands	Total area (ha) in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																	
Wetland Systems																	
407	822	2928.19	0.33	15	25.81	0.88			7	10.06	15	25.81	0.88	19	29.81	29.81	1.02
408	733	5044.44	0.57	32	433.13	8.59			23	374.44	32	434.31	8.61	39	763.38	763.38	15.13
409	3233	11115.94	1.25	52	154.69	1.39			21	57.13	54	159.56	1.44	62	493.19	493.19	4.44
410	1897	16704.88	1.88	52	882.44	5.28			14	77.56	53	884.44	5.29	76	2833.75	2833.75	16.96
Non-Target Ecological Systems																	
Coastal Systems																	
121	2	46.13	0.01			0.00							0.00				0.00
124	12	38.31	0.00			0.00							0.00				0.00
Wetland Systems																	
411	1117	1857.75	0.21	26	24.31	1.31	2	3.94	5	11.19	33	39.44	2.12	37	39.44	39.44	2.12
412	2097	8389.63	0.95	43	159.31	1.90			4	4.38	47	163.69	1.95	64	163.69	163.69	1.95
Unclassified Ecological Systems																	
2	34	2771.31	0.31	1	0.19	0.01			1	0.19	1	0.19	0.01	1	0.19	0.19	0.01
3	6	3.06	0.00			0.00							0.00				0.00
5	317	20.69	0.00	11	0.75	3.63			2	0.13	11	0.75	3.63	12	0.75	0.75	3.63
6	1630	2713.00	0.31	47	38.88	1.43			13	2.69	50	39.38	1.45	66	39.44	39.44	1.45

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Black Sturgeon

Tertiary Watershed 2AC

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area: 547,674 hectares (1,353,302 acres)

Land Ownership: Crown Land ~ 90%
Private Land ~ 10%

Planning Authority: 100% Thunder Bay District

General Description:

This tertiary watershed flows into northwestern Lake Superior. There are approximately 33,942 hectares of coastal areas, 455,271 hectares of stream systems, 28,298 hectares of lakes and 25,252 hectares of wetlands. The Sleeping Giant peninsula and the Black Bay peninsula are part of the watershed. Many small islands are found on the Lake Superior coast of the Black Bay peninsula, some of which are within the Lake Superior National Marine Conservation Area. The Black Sturgeon River is included in this tertiary watershed. The majority of the watershed is dominated by mixed forests; however, smaller amounts of both coniferous and deciduous forests are present. Open and treed bogs and fens are scattered throughout the watershed. Evidence of some recent forest fires is also present.

Land Use:

This watershed contains the settlements of Pass Lake, Dorion, Hurkett and Red Rock. Very little settlement and developed land is present. However, recent and older cutovers can be found throughout, and are more concentrated to the north.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2AC is 61,179 hectares and contributes to approximately 11% of the watershed's total area. The majority of this land (60,510 ha) is located within provincially protected areas. Approximately 1,868 hectares are provincially significant ANSIs, of which 1,711 hectares coincide with



conservation reserves. There are 12,658 hectares of protected coastal areas, 34,901 hectares of protected stream systems, 7,664 hectares of protected lakes and 2,315 hectares of protected wetlands.

Species and Vegetation Community Targets:

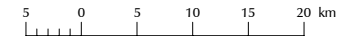
Two confirmed rare species targets occur in 2AC, primary target Auricled Twayblade (*Listera auriculata*) and secondary target Northern Brook Lamprey (*Ichthyomyzon fossor*). One known occurrence for Auricled Twayblade is located within a provincially protected area. There are no known occurrences of rare vegetation communities in tertiary watershed 2AC.

Conservation Blueprint:

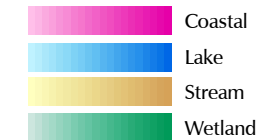
The Conservation Blueprint includes 13,112 hectares of coastal areas, 79,134 hectares of stream systems, 11,252 hectares of lakes and 3,648 hectares of wetlands. The Conservation Blueprint also includes all documented occurrences for primary target Auricled Twayblade, and one-third of the known occurrences of the Northern Brook Lamprey.

Great Lakes Conservation Blueprint for Biodiversity

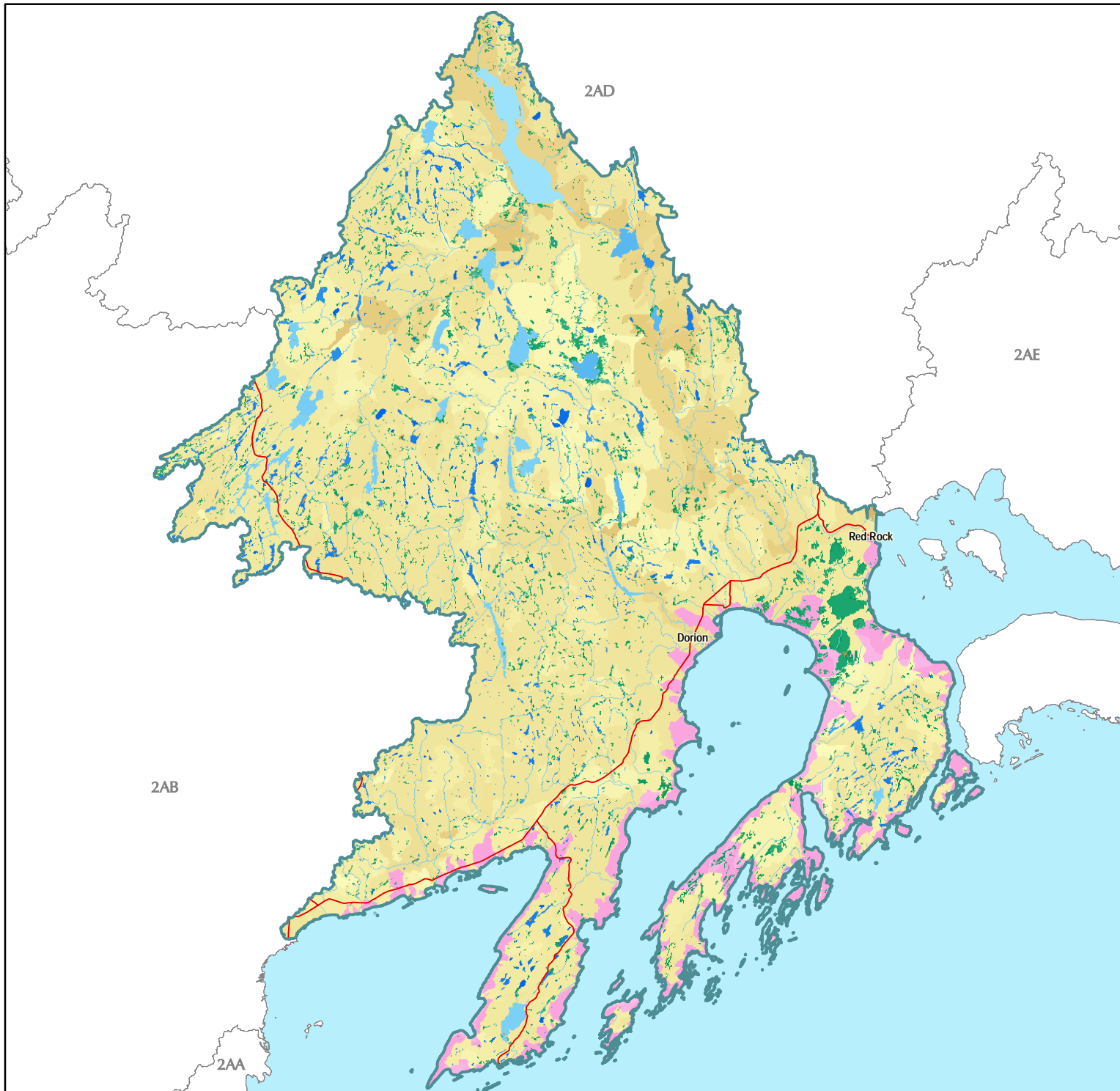
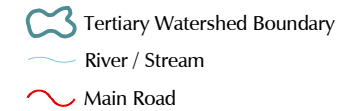
BLACK STURGEON WATERSHED 2AC



Aquatic Ecological Systems



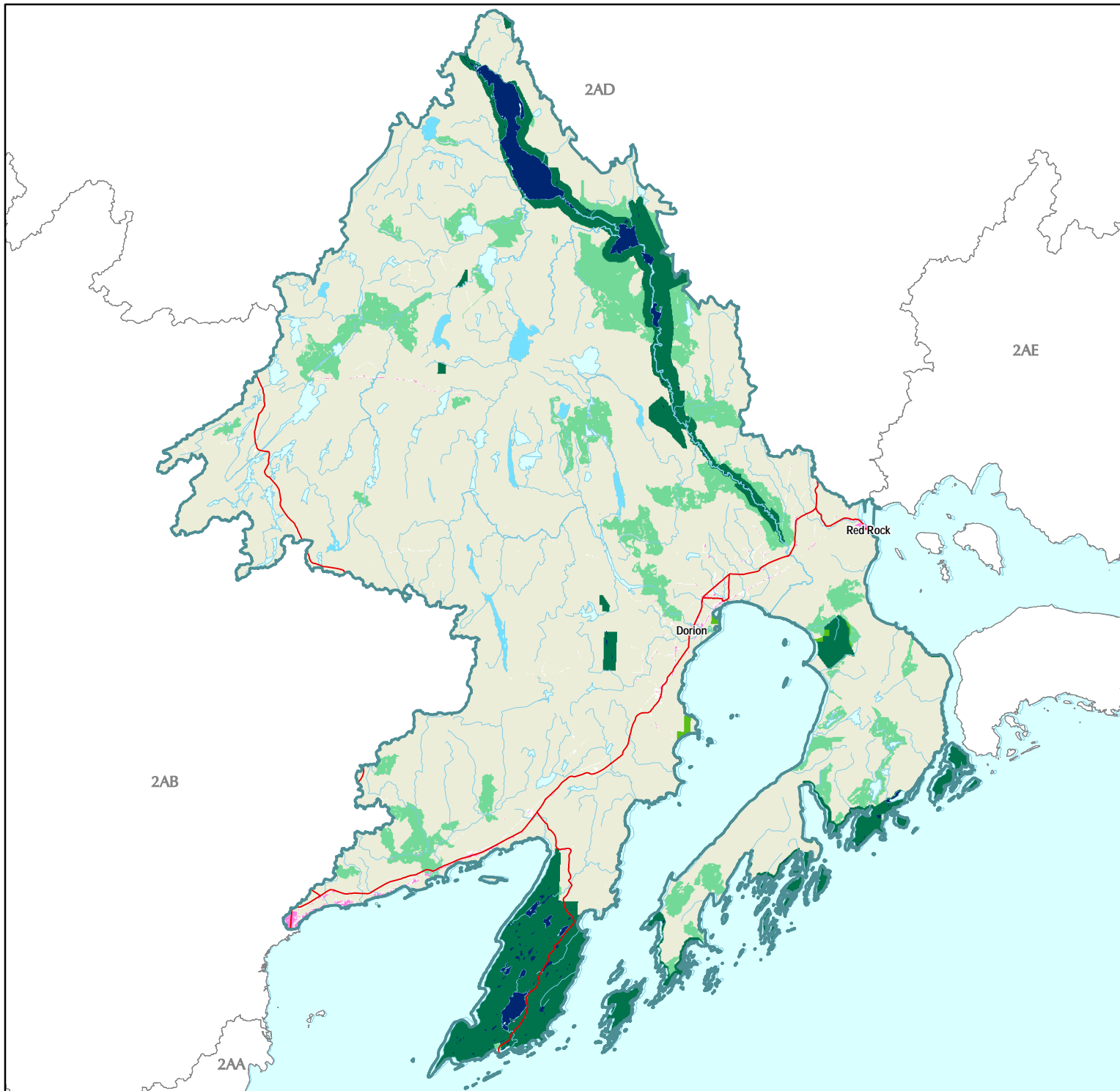
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

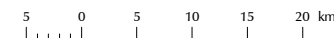
For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

BLACK STURGEON WATERSHED 2AC



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Documented extant significant species information for tertiary watershed 2AC

# of pops in 2AC	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in Parks and PAs	% of pops in Parks and PAs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species														
3	<i>Ichthyomyzon fossor</i>	Northern Brook Lamprey	G4	S3	SC	SC	SAR	0	0	0	0	1	33	secondary
2	<i>Listera auriculata</i>	Auricled Twayblade	G3	S3			GRank	1	50	1	50	2	100	2

Ecological systems summary for tertiary watershed 2AC

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	36461.25	6.66	14293.19	39.20	14746.75	40.44	14746.75	40.44
Stream Systems	455271.63	83.13	34901.88	7.67	79134.38	17.38	78926.69	17.34
Lake Systems	28298.38	5.17	7664.69	27.09	11252.38	39.76	11252.38	39.76
Wetland Systems	25252.25	4.61	2315.50	9.17	3648.75	14.45	3648.75	14.45
Tertiary watershed	547674.00	100.00	61179.44	11.17	110786.38	20.23	110578.69	20.19

Ecological systems details for tertiary watershed 2AC

System Integer	# of patches in 2AC	Total area (ha) in 2AC	% of total area in 2AC	# of patches in federal lands	Total area (ha) in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																	
Coastal Systems																	
101	18	143.63	0.03	2	0.13	13	110.75					13	110.75	16	110.88	110.88	77.20
104	137	492.06	0.09	5	0.31	103	387.13					103	387.25	121	387.25	387.25	78.70
105	82	890.56	0.16	7	0.44	51	580.44					51	580.44	62	585.50	585.50	65.74
106	2	13.13	0.00											2	13.19	13.19	100
107	3	57.00	0.01	4	0.44	2	52.44					2	52.44	2	57.19	57.19	100
108	179	936.94	0.17	4	0.25	115	579.38	1	8.63	2	2.63	118	584.00	131	584.06	584.06	62.34
113	58	155.56	0.03	1	0.06	12	59.19			3	27.50	15	86.69	18	86.69	86.69	55.73
114	3	29.81	0.01											4	29.88	29.88	100
115	2	13.25	0.00	1	0.06							1	0.06	3	13.31	13.31	100
116	68	151.13	0.03	3	0.19	34	67.31			1	0.63	38	68.13	46	68.13	68.13	45.08
125	189	25,698.00	4.69			141	9,247.63	4	220.25	2	299.63	143	9566.63	208	9572.06	9572.06	37.25
126	4	103.25	0.02			4	102.44					4	102.44	6	103.25	103.25	100
127	70	5232.25	0.96	1	0.06	28	1137.75	4	311.44			28	1146.75	33	1501.00	1501.00	28.69
199	305	2518.44	0.46			191	1549.81	1	17.81	2	56.25	193	1607.63	287	1634.38	1634.38	64.90

System Integer	# of patches in 2AC	Total area (ha) in 2AC	% of total area in 2AC	# of patches in federal lands	Total area (ha) in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																	
Stream Systems																	
201	2	132.75	0.02			1	20.63					1	20.63	3	132.75	132.75	100.00
202	9	1073.13	0.20			1	2.13					1	2.13	5	937.31	905.50	87.34
203	77	6436.88	1.18			6	21.81	5	9.81	1	1.00	7	22.88	21	1986.38	1986.38	30.86
204	4	1146.56	0.21			2	30.81					2	30.81	3	1091.56	1091.56	95.20
205	69	10,637.94	1.94											6	741.38	741.38	6.97
206	61	18796.00	3.43			8	292.75					8	292.75	12	848.38	848.19	4.51
207	17	2821.94	0.52			7	545.06					7	545.06	8	892.50	892.50	31.63
208	75	16082.75	2.94			3	161.25					3	161.25	14	3274.88	3274.88	20.36
209	56	6411.19	1.17			31	1407.50					31	1407.50	40	1890.25	1890.25	29.48
210	165	30183.00	5.51	1	1.06	8	721.69					8	721.69	14	1971.13	1971.13	6.53
211	108	11304.00	2.06			13	447.63	8	278.38			10	528.25	38	3136.00	3133.50	27.74
212	107	24026.88	4.39			27	1884.50					27	1884.50	29	2129.94	2129.94	8.86
213	316	48004.50	8.77			47	8479.75					47	8479.75	70	8746.69	8746.69	18.22
214	179	33068.25	6.04			13	3193.38					13	3193.38	26	4866.50	4866.50	14.72
215	31	6215.13	1.13			6	536.50					6	536.50	18	6066.94	6065.38	97.62
216	44	10048.19	1.83			1	25.38					1	25.38	17	1262.88	1262.88	12.57
217	429	136324.81	24.89			39	2763.19			1	0.56	40	2763.75	52	3078.13	3078.06	2.26
218	112	23354.75	4.26			6	173.56					6	173.56	10	1163.63	1163.63	4.98
219	32	11113.44	2.03			10	650.00					10	650.00	12	1833.88	1832.81	16.50
220	53	8026.44	1.47			4	96.94					4	96.94	13	3189.00	3149.31	39.73
221	32	7279.00	1.33			4	2342.19					4	2342.19	28	3404.56	3404.56	46.77
222	48	6456.69	1.18			4	563.88					4	563.88	10	4122.69	4091.38	63.85
223	3	77.00	0.01											3	77.00	54.13	100.00
224	3	144.06	0.03			1	50.56					1	50.56	5	144.06	144.06	100.00
225	16	5125.88	0.94			6	114.25					6	114.25	11	3768.69	3732.63	73.52
226	24	8223.69	1.50			22	4059.31					22	4059.31	28	4934.25	4934.25	60.00
227	78	13169.50	2.40			34	4282.25					34	4282.25	58	4583.25	4583.25	34.80
229	3	56.19	0.01			1	9.69					1	9.69	4	56.19	56.00	100.00
230	6	886.00	0.16			3	72.50					3	72.50	7	884.44	858.50	99.82
231	6	2461.69	0.45			5	1053.75					5	1053.75	5	2153.38	2151.63	87.48
232	2	429.56	0.08			2	181.00					2	181.00	2	429.56	429.56	100.00
233	15	3194.81	0.58			1	539.19					1	539.19	23	3180.63	3174.44	99.56
235	12	2390.31	0.44			6	84.31					6	84.31	9	2133.75	2127.25	89.27
247	37	161.56	0.03			5	12.31					5	12.31	32	14.88	14.88	9.21
248	1	0.06	0.00											1	0.06	0.06	100.00
250	14	5.25	0.00											15	5.25	5.25	100.00

System Integer	# of patches in 2AC	Total area (ha) in 2AC	% of total area in 2AC	# of patches in federal lands	Total area (ha) in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																	
Lake Systems																	
254	6	1.88	0.00											6	1.69	1.69	90.00
309	13	4877.94	0.89			13	4877.94					13	4877.94	26	4877.94	4877.94	100.00
315	47	6285.44	1.15			2	771.06					2	771.06	11	1524.19	1524.19	24.25
317	6	2676.69	0.49											6	1739.44	1739.44	64.98
322	11	1995.63	0.36			4	926.50					4	926.50	7	1248.50	1248.50	62.56
325	12	13.44	0.00			5	3.88					5	3.88	11	3.88	3.88	28.84
326	126	789.44	0.14			12	26.44					12	26.44	18	28.44	28.44	3.60
327	7	8.75	0.00			1	0.25					1	0.25	1	0.25	0.25	2.86
328	58	72.00	0.01			8	5.13					8	5.13	11	21.81	21.81	30.30
329	56	154.19	0.03			4	10.00					4	10.00	12	23.06	23.06	14.96
330	97	1283.25	0.23			10	130.94					10	130.94	31	438.56	438.56	34.18
331	164	411.00	0.08			12	22.56					12	22.56	14	26.94	26.94	6.55
332	52	58.75	0.01			1	0.19					1	0.19	4	4.50	4.50	7.66
333	735	6716.38	1.23			43	615.81					43	615.81	65	862.88	862.88	12.85
334	202	186.00	0.03			11	13.00					11	13.00	11	13.00	13.00	6.99
335	148	581.31	0.11			2	4.81					2	4.81	3	182.81	182.81	31.45
336	863	2188.19	0.40			55	256.19					55	256.19	58	256.19	256.19	11.71
Wetland Systems																	
407	68	153.94	0.03			11	24.06					11	24.06	14	29.06	29.06	18.88
408	57	289.19	0.05			6	31.69					6	31.69	10	149.38	149.38	51.65
409	866	2950.56	0.54			40	161.25	9	71.38	1	1.31	41	162.56	44	164.88	164.88	5.59
410	381	5246.31	0.96			39	951.75	4	695.44			40	1020.19	52	2228.44	2228.44	42.48
Non-Target Ecological Systems																	
Coastal Systems																	
121	3	2.31	0.00														0.00
124	13	23.94	0.00														0.00
Wetland Systems																	
411	1824	6436.00	1.18			160	428.69	17	106.25	1	0.56	159	468.13	179	468.13	468.13	7.27
412	2186	10176.25	1.86	3	4.94	158	607.38	10	127.88			162	608.88	199	608.88	608.88	5.98
Non-Target Ecological Systems																	
5	575	2116.94	0.39	263	259.31	270	1881.00			5	0.31	452	1937.81	493	1937.75	1937.75	91.54
6	403	273.56	0.05			54	66.38	7	20.38			54	66.38	66	66.38	66.38	24.26

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and **Additional Designated Natural Heritage Areas** which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Nipigon

Tertiary Watershed 2AD

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area: 2,504,175 hectares (6,187,818 acres)

Land Ownership: Crown Land ~ 94%
Private Land ~ 5%
First Nations Lands ~ 1%

Planning Authority: 100% Thunder Bay District

General Description:

There are approximately 1,741,728 hectares of stream systems, 573,344 hectares of lakes and 136,183 hectares of wetlands in this large watershed. Approximately one quarter of the watershed's area is comprised of Lake Nipigon and its many islands (including Murray, Logan, Geikie, Shakespear, Kelvin and Murchison islands). The watershed also contains the Nipigon, Kopka and Ombabika rivers. Mixed coniferous and deciduous forests dominate the natural land cover, with dense coniferous and deciduous forests making significant contributions as well.

Land Use:

There has been relatively little land conversion in this watershed. This watershed contains the settlements of Nipigon and Lake Helen. There are also significant areas of old and recent cutovers and burns.

Protection and Conservation:

There is a total of 360,592 hectares of provincially protected areas in the watershed, constituting approximately 14% of the watershed's total area. There are 227,353 hectares of protected stream systems, 69,674 hectares of protected lakes and 17,893 hectares of protected wetlands.



Species and Vegetation Community Targets:

Three confirmed rare species targets occur within this watershed; the primary target American White Pelican (*Pelecanus erythrorhynchos*), and the secondary targets Yellow Rail (*Coturnicops noveboracensis*) and Northern Brook Lamprey (*Ichthyomyzon fossor*). There are Yellow Rail and American White Pelican occurrences within provincially protected areas. There are no rare vegetation communities documented for tertiary watershed 2AD.

Conservation Blueprint:

The Conservation Blueprint includes 309,704 hectares of stream systems, 77,082 hectares of lakes and 23,665 hectares of wetlands. The Conservation Blueprint also includes two rare occurrences for the primary target American White Pelican and the only known occurrence of Yellow Rail in the watershed.

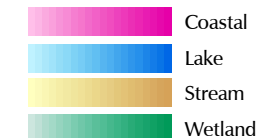


Great Lakes Conservation Blueprint for Biodiversity

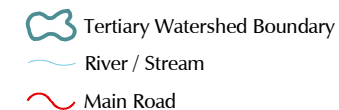
NIPIGON WATERSHED 2AD



Aquatic Ecological Systems



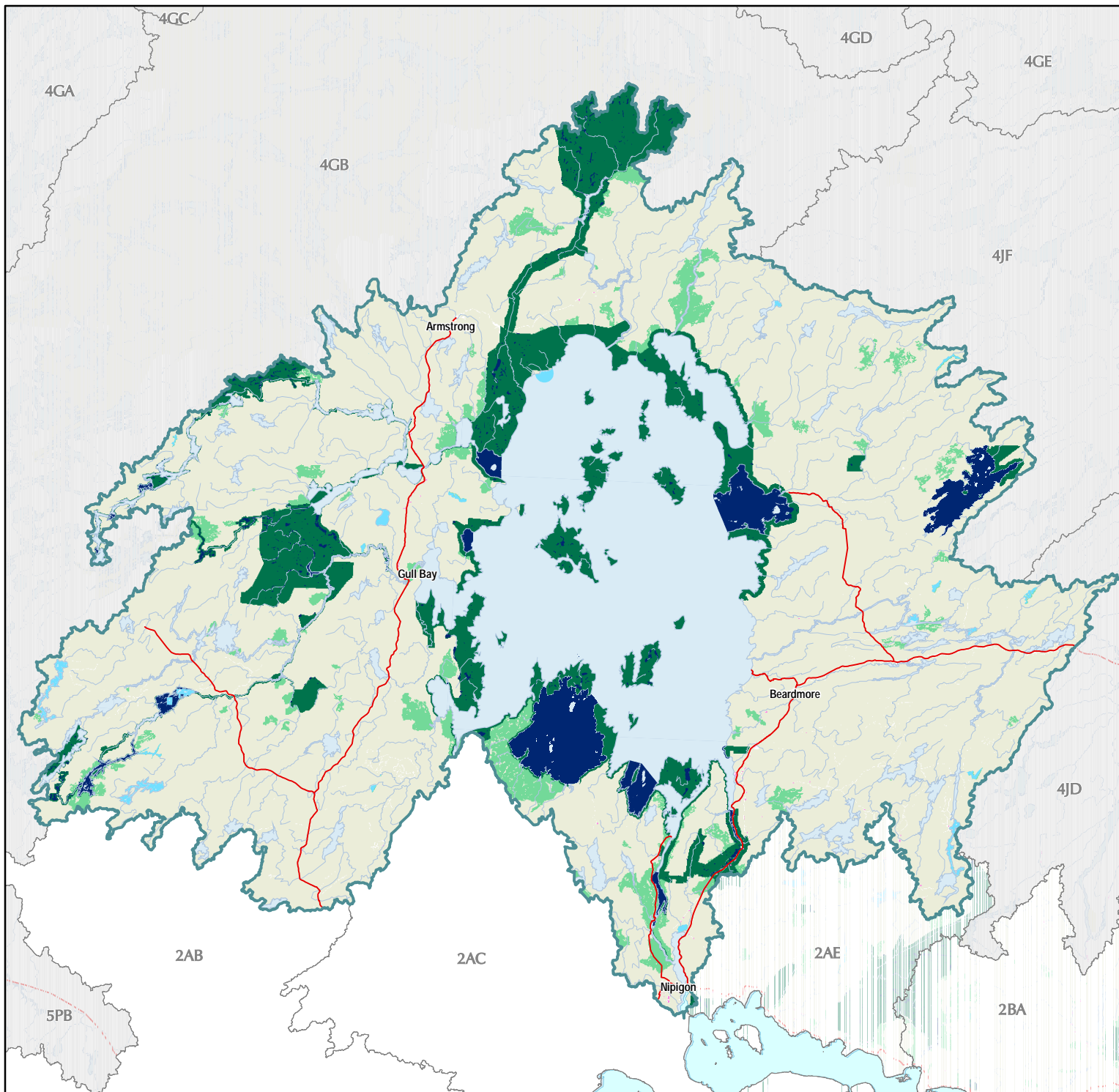
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

NIPIGON WATERSHED 2AD



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Documented extant significant species information for tertiary watershed 2AD

Number of pops in 2AD	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in Parks and PAs	% of pops in Parks and PAs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species														
5	<i>Pelecanus erythrorhynchos</i>	American White Pelican	G3	S2B,SZN	NAR	END-R	GRank SAR	1	20	1	20	2	40	2
1	<i>Coturnicops noveboracensis</i>	Yellow Rail	G4	S4B,SZN	SC	SC	SAR	1	100	1	100	1	100	secondary
1	<i>Ichthyomyzon fossor</i>	Northern Brook Lamprey	G4	S3	SC	SC	SAR	0	0	0	0	0	0	secondary

Ecological systems summary for tertiary watershed 2AD

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stream Systems	1743228.50	69.61	227364.38	13.04	309715.44	17.77	309393.25	17.75
Lake Systems	573344.31	22.90	69674.69	12.15	77082.19	13.44	77082.19	13.44
Wetland Systems	136183.50	5.44	17893.63	13.14	23665.00	17.38	23665.00	17.38
Tertiary watershed	2504175.69	100.00	360592.94	14.40	456120.63	18.21	455798.44	18.20

Ecological systems details for tertiary watershed 2AD

System Integer	# of patches in 2AD	Total area (ha) in 2AD	% of total area in 2AD	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems													
Stream Systems													
201	6	297.25	0.01	2	40.81	13.73	2	40.81	13.73	4	191.25	191.25	64.34
202	9	684.06	0.03			0.00			0.00	3	572.38	572.38	83.67
203	339	42668.38	1.70	74	3787.63	8.88	74	3787.63	8.88	107	3787.63	3787.63	8.88
204	11	1086.50	0.04	2	64.63	5.95	2	64.63	5.95	7	891.81	891.81	82.08
205	531	65197.81	2.60	62	4247.00	6.51	62	4247.00	6.51	88	4748.75	4748.75	7.28
206	246	46028.81	1.84	69	3860.94	8.39	69	3860.94	8.39	91	5068.63	5058.38	11.01
207	16	3321.50	0.13	2	509.69	15.35	2	509.69	15.35	12	2228.25	2228.25	67.09
208	557	91455.13	3.65	59	8830.94	9.66	59	8830.94	9.66	85	13261.50	13260.38	14.50
209	78	3648.88	0.15	24	1010.38	27.69	24	1010.38	27.69	31	1047.19	1046.88	28.70
210	415	79877.31	3.19	80	7330.56	9.18	80	7330.56	9.18	120	7332.44	7332.44	9.18
211	661	112012.19	4.47	58	5167.56	4.61	58	5167.56	4.61	94	6544.06	6543.56	5.84
212	78	9510.94	0.38	16	1079.25	11.35	16	1079.25	11.35	19	1764.56	1761.44	18.55
213	1105	199000.38	7.95	109	7160.00	3.60	109	7160.00	3.60	147	7250.25	7250.25	3.64
214	1048	198980.63	7.95	91	9850.56	4.95	91	9850.56	4.95	127	10091.50	10091.50	5.07

System Integer	# of patches in 2AD	Total area (ha) in 2AD	% of total area in 2AD	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued													
Stream Systems continued													
215	146	21300.38	0.85	52	2049.00	9.62	52	2049.00	9.62	65	2249.88	2248.88	10.56
216	161	44349.00	1.77	39	5282.44	11.91	39	5282.44	11.91	41	6065.81	6056.94	13.68
217	737	170902.50	6.82	134	13322.31	7.80	134	13322.31	7.80	178	13322.25	13322.25	7.80
218	355	71027.44	2.84	75	7221.56	10.17	75	7221.56	10.17	110	8407.75	8407.75	11.84
219	57	26057.06	1.04	14	1279.06	4.91	14	1279.06	4.91	24	3092.63	3092.63	11.87
220	51	7716.69	0.31	12	1539.19	19.95	12	1539.19	19.95	16	2248.00	2248.00	29.13
221	330	102970.88	4.11	81	17464.38	16.96	81	17464.38	16.96	160	18791.31	18791.31	18.25
222	39	18924.13	0.76	10	5436.75	28.73	10	5436.75	28.73	20	7419.94	7419.94	39.21
223	15	4928.81	0.20	5	426.56	8.65	5	426.56	8.65	9	4846.44	4846.44	98.33
224	26	5520.88	0.22	17	1993.06	36.10	17	1993.06	36.10	21	1993.06	1993.06	36.10
225	26	1965.13	0.08	13	387.38	19.71	13	387.38	19.71	19	534.00	534.00	27.17
226	290	77752.63	3.10	79	18704.56	24.06	79	18704.56	24.06	123	22935.00	22935.00	29.50
227	157	29743.88	1.19	69	3046.00	10.24	69	3046.00	10.24	113	3998.31	3998.31	13.44
228	11	404.44	0.02	9	292.56	72.34	9	292.56	72.34	18	322.06	322.06	79.63
229	3	206.63	0.01			0.00			0.00	3	206.63	206.63	100.00
230	43	11079.00	0.44	11	908.31	8.20	11	908.31	8.20	22	5381.88	5377.63	48.58
231	111	37580.50	1.50	45	6219.50	16.55	45	6219.50	16.55	52	8866.63	8866.63	23.59
232	1	116.69	0.00	1	70.88	60.74	1	70.88	60.74	1	116.69	116.69	100.00
233	61	19136.69	0.76	16	532.00	2.78	16	532.00	2.78	23	2268.00	2268.00	11.85
234	1	1.88	0.00	1	1.88	100.00	1	1.88	100.00	1	1.88	1.88	100.00
235	42	5406.31	0.22	13	703.75	13.02	13	703.75	13.02	18	1040.63	1040.63	19.25
238	5	656.69	0.03	5	53.44	8.14	5	53.44	8.14	6	510.88	510.88	77.80
241	24	10176.75	0.41	14	1197.00	11.76	14	1197.00	11.76	19	6447.69	6381.06	63.36
242	3	274.31	0.01	3	31.13	11.35	3	31.13	11.35	2	274.25	274.25	99.98
243	30	8178.75	0.33	19	322.19	3.94	19	322.19	3.94	22	1465.69	1465.69	17.92
244	4	1209.50	0.05	4	473.06	39.11	4	473.06		6	1209.50	1209.50	100.00
246	13	407.44	0.02	13	407.44	100.00	13	407.44	100.00	19	407.44	407.44	100.00
247	375	157547.88	6.29	328	74990.31	47.60	328	74990.31	47.60	473	89454.06	89454.06	56.78
248	38	7963.19	0.32	13	870.94	10.94	13	870.94	10.94	18	7679.25	7480.94	96.43
249	1	420.06	0.02			0.00			0.00	2	420.06	420.06	100.00
250	45	24716.81	0.99	34	5343.06	21.62	34	5343.06	21.62	43	6877.88	6853.69	27.83
251	2	276.06	0.01	2	61.25	22.19	2	61.25	22.19	2	276.06	276.06	100.00
252	8	7411.56	0.30	2	245.63	3.31	2	245.63	3.31	3	7229.56	7225.94	97.54
253	15	4845.56	0.19	8	510.38	10.53	8	510.38	10.53	18	2679.19	2679.19	55.29
254	14	6782.56	0.27	8	3026.25	44.62	8	3026.25	44.62	10	5883.75	5883.75	86.75

System Integer	# of patches in 2AD	Total area (ha) in 2AD	% of total area in 2AD	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued													
Lake Systems													
306	13	7782.06	0.31	20	1244.63	15.99	20	1244.63	15.99	16	3982.00	3982.00	51.17
309	56	476194.88	19.02	31	61042.50	12.82	31	61042.50	12.82	91	61808.44	61808.44	12.98
313	1	240.75	0.01			0.00			0.00	1	240.75	240.75	100.00
315	80	18329.69	0.73	2	217.94	1.19	2	217.94	1.19	9	1141.38	1141.38	6.23
317	8	1915.44	0.08	1	0.75	0.04	1	0.75	0.04	10	763.69	763.69	39.87
319	2	894.63	0.04	1	258.75	28.92	1	258.75	28.92	3	894.63	894.63	100.00
322	16	2892.19	0.12			0.00			0.00	4	749.50	749.50	25.91
325	143	569.63	0.02	18	44.19	7.76	18	44.19	7.76	27	47.19	47.19	8.28
326	848	10958.00	0.44	129	1208.81	11.03	129	1208.81	11.03	212	1327.94	1327.94	12.12
327	25	188.50	0.01	3	2.06	1.09	3	2.06	1.09	5	6.44	6.44	3.42
328	412	858.44	0.03	41	62.44	7.27	41	62.44	7.27	43	62.44	62.44	7.27
329	85	615.63	0.02	15	146.38	23.78	15	146.38	23.78	24	147.00	147.00	23.88
330	454	6693.88	0.27	45	616.50	9.21	45	616.50	9.21	80	717.38	717.38	10.72
331	1034	3884.75	0.16	129	420.94	10.84	129	420.94	10.84	140	654.81	654.81	16.86
332	82	103.06	0.00	5	7.19	6.97	5	7.19	6.97	7	8.38	8.38	8.13
333	2272	29976.56	1.20	255	3093.31	10.32	255	3093.31	10.32	372	3093.31	3093.31	10.32
334	423	798.81	0.03	39	136.75	17.12	39	136.75	17.12	47	137.56	137.56	17.22
335	399	1575.56	0.06	28	102.94	6.53	28	102.94	6.53	29	102.94	102.94	6.53
336	2797	8871.88	0.35	308	1068.63	12.05	308	1068.63	12.05	330	1196.44	1196.44	13.49
Wetland Systems													
407	5199	20053.44	0.80	633	3707.38	18.49	633	3707.38	18.49	795	4226.50	4226.50	21.08
408	1496	22370.63	0.89	209	2069.88	9.25	209	2069.88	9.25	244	6249.69	6249.69	27.94
409	7577	24046.75	0.96	828	2568.44	10.68	828	2568.44	10.68	1011	2591.00	2591.00	10.77
410	2597	23439.00	0.94	279	2093.69	8.93	279	2093.69	8.93	316	3143.50	3143.50	13.41
Non-Target Ecological Systems													
Wetland Systems													
411	7090	16482.50	0.66	1303	2922.38	17.73	1303	2922.38	17.73	1471	2922.44	2922.44	17.73
412	6972	29791.19	1.19	1042	4531.88	15.21	1042	4531.88	15.21	1263	4531.88	4531.88	15.21
Unclassified Ecological Systems													
2	64	1500.13	0.06	5	11.25	0.75	5	11.25	0.75	8	11.25	11.25	0.75
5	480	31.13	0.00	81	5.31	17.07	81	5.31	17.07	48	3.06	3.06	9.84
6	4807	51388.25	2.05	1689	45654.94	88.84	1689	45654.94	88.84	1977	45654.94	45654.94	88.84

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Jackpine

Tertiary Watershed 2AE

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area: 224,424 hectares (554,552 acres)

Land Ownership: Crown Land ~ 89%
Private Land ~ 10%
First Nations Lands ~ 1%

Planning Authority: 100% Thunder Bay District

General Description:

This tertiary watershed has a large amount of coastline and drains into north-central Lake Superior. There are approximately 14,210 hectares of coastal areas, 189,239 hectares of stream systems, 9,422 hectares of lakes and 8,514 hectares of wetlands. The land cover in watershed 2AE is primarily mixed coniferous and deciduous forest, with large tracts of dense coniferous and deciduous forests. Significant areas include part of the Lake Superior archipelago (Ignace and Simpson Islands), Nipigon Bay and Vert Island.

Land Use:

There has been relatively little land conversion in this watershed, with most of the area remaining in a state of forested natural cover, lakes and wetlands. There are no large settlements in this watershed.

Protection and Conservation:

The total area of conservation lands in tertiary watershed 2AE is 76,178 hectares, constituting approximately 33% of the watershed's total area. The majority of this land (76,167 ha) is within provincially protected areas. There are 9,553 hectares of protected coastal areas, 61,088 hectares of protected stream systems, 1,979 hectares of protected lakes and 1,312 hectares of protected wetlands.



Species and Vegetation Community Targets:

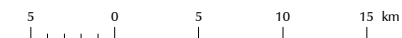
Three known occurrences of species targets occur within watershed 2AE; the primary target American White Pelican (*Pelecanus erythrorhynchos*) and secondary targets Bald Eagle (*Haliaeetus leucocephalus*) and Northern Brook Lamprey (*Ichthyomyzon fossor*). There are occurrences of Northern Brook Lamprey and American White Pelican in provincially protected areas. No occurrences of rare vegetation communities have been documented in tertiary watershed 2AE.

Conservation Blueprint:

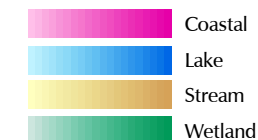
The Conservation Blueprint includes 10,196 hectares of coastal areas, 68,189 hectares of stream systems, 3,394 hectares of lakes and 2,375 hectares of wetlands. The Conservation Blueprint also includes all known occurrences of American White Pelican and Northern Brook Lamprey.

Great Lakes Conservation Blueprint for Biodiversity

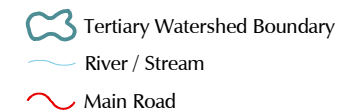
JACKPINE WATERSHED 2AE



Aquatic Ecological Systems



Other Information



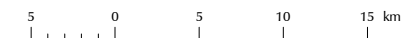
Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity






JACKPINE WATERSHED 2AE



Aquatic Conservation Blueprint

-  Parks and Protected Areas
-  Additional Designated Natural Heritage Areas
-  Priority Stewardship Areas - Natural
-  Priority Stewardship Areas - Non-Natural

Other Information

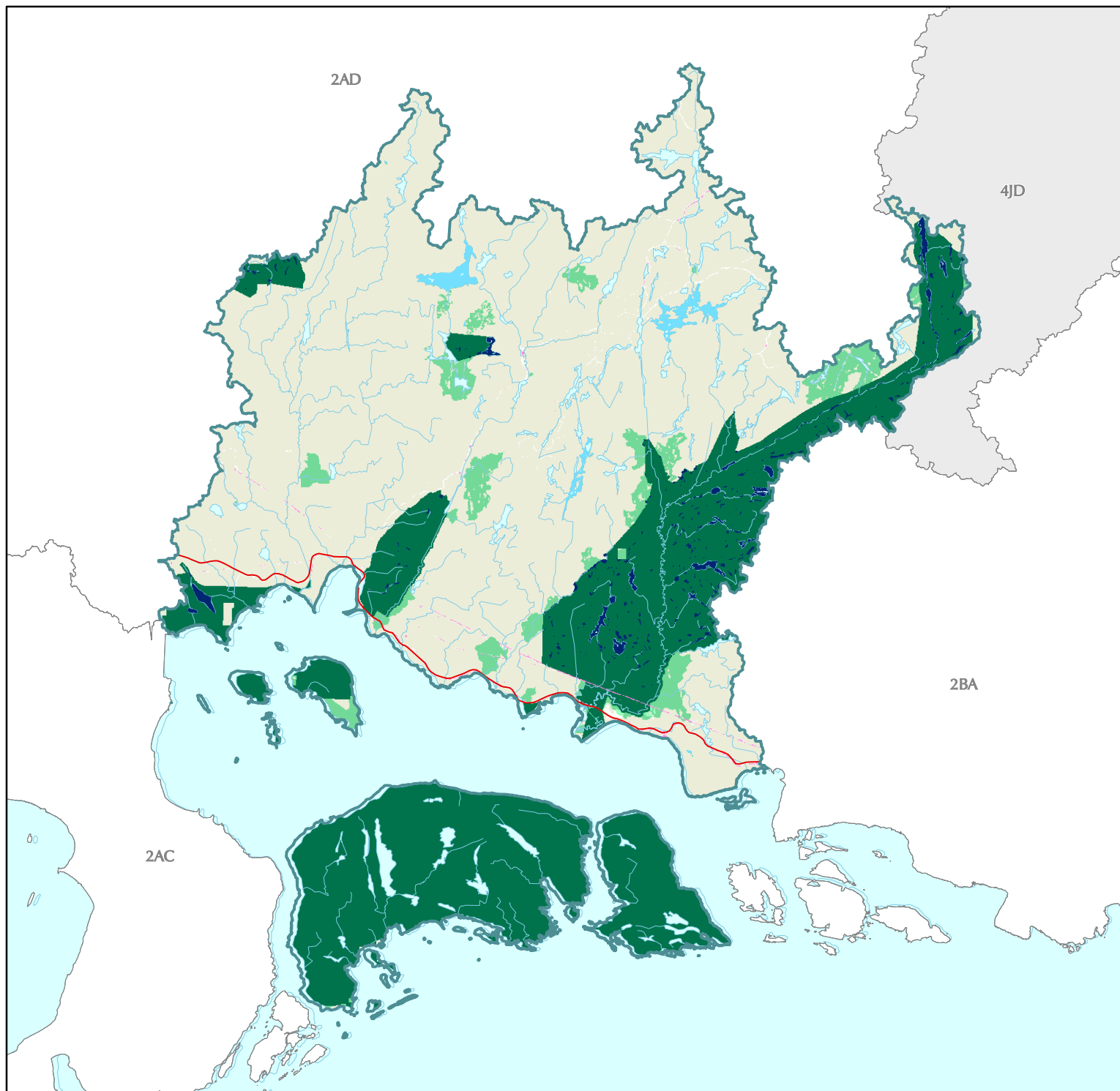
-  Tertiary Watershed Boundary
-  Lake / Water Course
-  Main Road
-  Urban Area
-  Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Documented extant significant species information for tertiary watershed 2AE

# of pops in 2AE	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in prov prot areas	% of pops in prov prot areas	# of pops in all con lands	% of pops in all con lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species														
1	<i>Pelecanus erythrorhynchos</i>	American White Pelican	G3	S2B,SZN	NAR	END-R	GRank SAR	1	100	1	100	1	100	2
2	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S4B,SZN	NAR	END-R	SAR	0	0	0	0	1	50	secondary
2	<i>Ichthyomyzon fossor</i>	Northern Brook Lamprey	G4	S3	SC	SC	SAR	2	100	2	100	2	100	secondary

Ecological systems summary for tertiary watershed 2AE

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	15090.19	6.72	10435.38	69.15	10951.00	72.57	10950.63	72.57
Stream Systems	189239.50	84.32	61088.75	32.28	68189.56	36.03	68064.69	35.97
Lake Systems	9422.88	4.20	1979.31	21.01	3394.63	36.03	3394.63	36.03
Wetland Systems	8514.56	3.79	1312.63	15.42	2375.50	27.90	2375.50	27.90
Tertiary watershed	224424.38	100.00	76167.50	33.94	86272.94	38.44	86147.50	38.39

Ecological systems details for tertiary watershed 2AE

System Integer	# of patches in 2AE	Total area (ha) in 2AE	% of total area of 2AE	# of patches in federal lands	Total area (ha) in federal lands	% of system in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																
Coastal Systems																
101	27	180.50	0.08			0.00	24	143.38	79.43	24	143.38	79.43	26	143.50	143.50	79.50
104	98	229.44	0.10			0.00	85	204.94	89.32	85	204.94	89.32	107	204.94	204.94	89.32
105	41	405.50	0.18			0.00	38	281.81	69.50	38	281.81	69.50	44	284.44	284.44	70.14
106	4	14.38	0.01			0.00	3	1.13	7.83	3	1.13	7.83	5	14.38	14.38	100.00
107	5	49.19	0.02			0.00	4	14.81	30.11	4	14.81	30.11	5	31.75	31.75	64.55
108	88	394.25	0.18	1	0.06	0.02	69	267.75	67.91	70	267.81	67.93	91	268.00	268.00	67.98
113	10	50.19	0.02			0.00	11	35.13	69.99	11	35.13	69.99	12	35.13	35.13	69.99
116	19	47.00	0.02	2	0.13	0.27	10	21.06	44.81	12	21.19	45.08	17	25.00	25.00	53.19
117	1	1.44	0.00			0.00			0.00			0.00	1	1.44	1.44	100.00
125	99	10914.25	4.86			0.00	88	8098.44	74.20	88	8098.44	74.20	127	8135.13	8134.75	74.54
126	2	925.38	0.41			0.00	2	484.75	52.38	2	484.75	52.38	3	925.31	925.31	99.99
127	23	990.13	0.44			0.00	16	127.50	12.88	16	127.50	12.88	18	127.50	127.50	12.88
199	154	879.88	0.39			0.00	124	754.50	85.75	124	754.50	85.75	182	754.50	754.50	85.75

System Integer	# of patches in ZAE	Total area (ha) in ZAE	% of total area of ZAE	# of patches in federal lands	Total area (ha) in federal lands	% of system in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Stream Systems																
201	1	24.56	0.01			0.00	1	24.56	100.00	1	24.56	100.00	1	24.56	24.56	100.00
202	2	549.88	0.25			0.00	1	19.25	3.50	1	19.25	3.50	2	549.88	524.44	100.00
205	2	210.00	0.09			0.00	2	138.88	66.13	2	138.88	66.13	6	210.00	209.06	100.00
206	6	61.19	0.03			0.00	2	0.25	0.41	2	0.25	0.41	5	9.63	9.63	15.73
207	2	90.81	0.04			0.00	1	51.56	56.78	1	51.56	56.78	2	90.81	90.38	100.00
208	6	494.69	0.22			0.00	1	76.13	15.39	1	76.13	15.39	4	446.88	443.25	90.33
209	72	20159.44	8.98	1	5.44	0.03	42	10090.06	50.05	42	10090.06	50.05	54	10091.44	10091.44	50.06
210	42	4031.44	1.80			0.00	4	1756.38	43.57	4	1756.38	43.57	8	2112.94	2112.94	52.41
211	4	67.44	0.03			0.00	1	63.50	94.16	1	63.50	94.16	3	67.13	67.13	99.54
212	80	18597.50	8.29			0.00	38	8648.56	46.50	38	8648.56	46.50	44	8649.63	8649.63	46.51
213	253	51126.19	22.78			0.00	62	17041.63	33.33	62	17041.63	33.33	90	17041.63	17041.63	33.33
214	123	17301.63	7.71			0.00	7	1458.06	8.43	7	1458.06	8.43	10	1628.56	1628.56	9.41
215	3	42.94	0.02			0.00			0.00			0.00				0.00
216	9	214.00	0.10			0.00			0.00			0.00	2	12.75	12.75	5.96
217	128	41318.56	18.41			0.00	34	9719.19	23.52	34	9719.19	23.52	41	9719.31	9719.31	23.52
218	80	8544.50	3.81			0.00	13	1044.56	12.22	13	1044.56	12.22	23	2669.56	2669.56	31.24
219	16	10453.69	4.66			0.00	13	3719.19	35.58	13	3719.19	35.58	17	3878.31	3878.31	37.10
220	17	9746.25	4.34			0.00	14	4127.75	42.35	14	4127.75	42.35	12	4804.19	4727.50	49.29
221	1	39.00	0.02			0.00	1	19.81	50.80	1	19.81	50.80	3	19.81	19.81	50.80
222	2	1172.13	0.52			0.00	2	1172.13	100.00	2	1172.13	100.00	3	1172.13	1172.13	100.00
223	11	980.69	0.44			0.00	4	75.69	7.72	4	75.69	7.72	8	980.25	980.25	99.96
225	4	844.13	0.38			0.00	4	177.63	21.04	4	177.63	21.04	3	844.06	835.88	99.99
227	2	614.75	0.27			0.00	1	177.38	28.85	1	177.38	28.85	5	614.75	614.75	100.00
228	4	1863.88	0.83			0.00	6	1039.31	55.76	6	1039.31	55.76	9	1863.94	1863.94	100.00
229	2	55.38	0.02			0.00	2	55.38	100.00	2	55.38	100.00	2	55.38	55.38	100.00
230	2	593.56	0.26			0.00	2	353.44	59.55	2	353.44	59.55	2	593.56	584.00	100.00
234	1	20.25	0.01			0.00	1	20.25	100.00	1	20.25	100.00	1	20.25	20.25	100.00
236	1	17.13	0.01			0.00	1	17.13	100.00	1	17.13	100.00	1	17.13	17.13	100.00
247	10	1.44	0.00			0.00	8	1.13	78.26	8	1.13	78.26	14	1.13	1.13	78.26
250	8	2.50	0.00			0.00			0.00			0.00				0.00
Lake Systems																
315	7	1419.50	0.63			0.00			0.00			0.00	10	1399.50	1399.50	98.59
325	1	2.00	0.00			0.00	1	2.00	100.00	1	2.00	100.00	5	2.00	2.00	100.00
326	10	52.44	0.02			0.00	5	6.81	12.99	5	6.81	12.99	12	6.81	6.81	12.99
328	5	4.44	0.00			0.00	2	0.75	16.90	2	0.75	16.90	2	0.75	0.75	16.90

System Integer	# of patches in 2AE	Total area (ha) in 2AE	% of total area of 2AE	# of patches in federal lands	Total area (ha) in federal lands	% of system in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Lake Systems continued																
329	22	113.13	0.05			0.00	5	6.38	5.64	5	6.38	5.64	10	6.38	6.38	5.64
330	18	199.06	0.09			0.00			0.00			0.00	4	8.13	8.13	4.08
331	10	31.31	0.01			0.00	2	0.44	1.40	2	0.44	1.40	3	0.44	0.44	1.40
332	3	17.56	0.01			0.00			0.00			0.00				0.00
333	694	6199.44	2.76			0.00	182	1584.88	25.56	182	1584.88	25.56	261	1584.88	1584.88	25.56
334	63	69.19	0.03			0.00	16	16.06	23.22	16	16.06	23.22	18	16.13	16.13	23.31
335	13	45.69	0.02			0.00			0.00			0.00				0.00
336	577	1269.13	0.57			0.00	155	362.00	28.52	155	362.00	28.52	167	369.63	369.63	29.12
Wetland Systems																
407	13	61.94	0.03			0.00	2	16.94	27.35	2	16.94	27.35	9	34.88	34.88	56.31
408	10	109.44	0.05			0.00	2	9.50	8.68	2	9.50	8.68	7	78.63	78.63	71.84
409	278	511.38	0.23			0.00	33	48.25	9.44	33	48.25	9.44	34	48.25	48.25	9.44
410	189	1742.25	0.78			0.00	40	321.31	18.44	40	321.31	18.44	51	1297.06	1296.88	74.45
Non-Target Ecological Systems																
Coastal Systems																
124	3	8.69	0.00			0.00			0.00			0.00				0.00
Wetland Systems																
411	1172	1427.13	0.64			0.00	212	220.38	15.44	212	220.38	15.44	247	220.44	220.44	15.45
412	1593	4662.44	2.08			0.00	327	696.25	14.93	327	696.25	14.93	387	696.25	696.25	14.93
Unclassified Ecological Systems																
5	261	1456.69	0.65	174	11.31	0.78	103	1215.69	83.46	245	1226.81	84.22	249	1226.63	1226.63	84.21
6	391	700.56	0.31			0.00	130	135.94	19.40	130	135.94	19.40	154	135.63	135.63	19.36

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Little Pic

Tertiary Watershed 2BA

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area: 507,193 hectares (1,253,275 acres)

Land Ownership: Crown Land ~ 94%
Private Land ~ 5%
First Nations Lands ~ 1%

Planning Authority: 100% Thunder Bay District

General Description:

Tertiary watershed 2BA drains into north-central Lake Superior and includes the Aguasabon River, Steel River and Little Pic River. There are approximately 15,530 hectares of coastal areas, 439,569 hectares of stream systems, 34,280 hectares of lakes and 13,859 hectares of wetlands. Pic Island, Slate Island and Wilson Island are also included in this tertiary watershed. The majority of land cover consists of mixed and coniferous forests. A small amount of sparse deciduous forest also occurs. There are few wetlands mapped in this watershed; only a small number of treed bogs. Recent forest fires have occurred on the landscape near the centre of the watershed.

Land Use:

The town of Marathon and the settlements of Rossport, Schreiber and Terrace Bay are found in this watershed along its significant stretch of Lake Superior coastline. Forestry is the dominant land use and occurs throughout the watershed.

Protection and Conservation:

The combined area of protected areas and conservation lands in tertiary watershed 2BA is 54,545 hectares and constitutes approximately 11% of the watershed's total area. The majority of these lands (54,536 ha) are located



within provincially protected areas. There are about 5,282 hectares of protected coastal areas, 37,929 hectares of protected stream systems, 8,308 hectares of protected lakes and 867 hectares of protected wetlands.

Species and Vegetation Community Targets:

Three species targets occur within the watershed; the primary target American White Pelican (*Pelecanus erythrorhynchos*) and secondary targets Bald Eagle (*Haliaeetus leucocephalus*) and Northern Brook Lamprey (*Ichthyomyzon fossor*). There are occurrences for Bald Eagle and Northern Brook Lamprey in provincially protected areas. No occurrences of rare vegetation communities have been documented in this watershed.

Conservation Blueprint:

The Conservation Blueprint includes 7,515 hectares of coastal areas, 97,042 hectares of stream systems, 10,527 hectares of lakes and 1,347 hectares of wetlands. The Conservation Blueprint also includes one of the occurrences for American White Pelican, two occurrences of Bald Eagle and one occurrence of Northern Brook Lamprey.

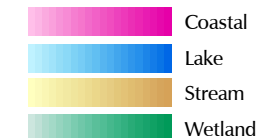


Great Lakes Conservation Blueprint for Biodiversity

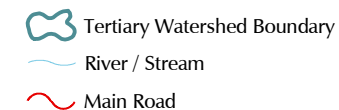
LITTLE PIC WATERSHED 2BA



Aquatic Ecological Systems



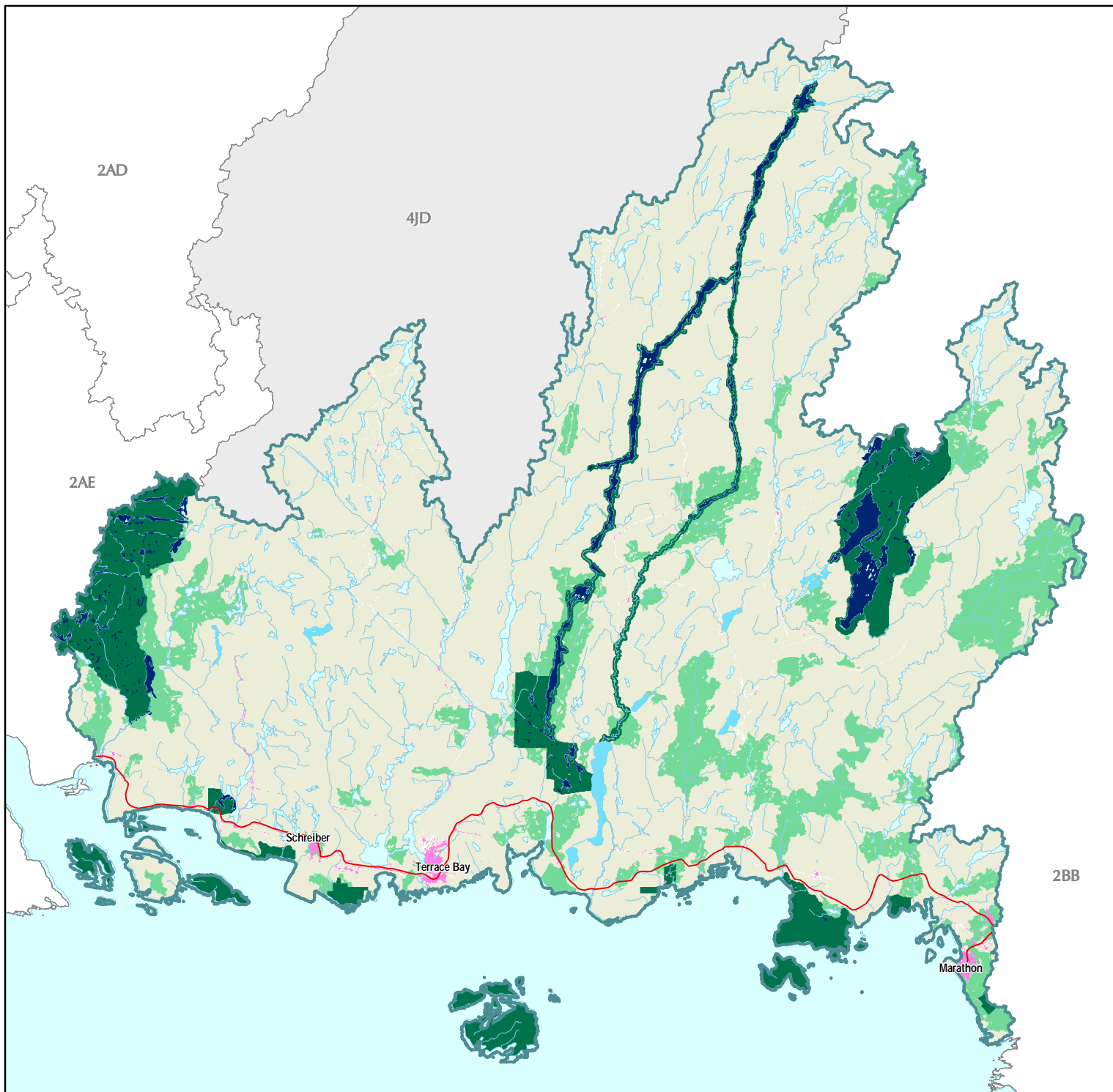
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

LITTLE PIC WATERSHED 2BA



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Documented extant significant species information for tertiary watershed 2BA

Number of pops in 2BA	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in Parks and PAs	% of pops in Parks and PAs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species														
1	<i>Pelecanus erythrorhynchos</i>	American White Pelican	G3	S2B,SZN	NAR	END-R	GRank SAR	0	0	0	0	1	100	2
4	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S4B,SZN	NAR	END-R	SAR	2	50	2	50	2	50	secondary
2	<i>Ichthyomyzon fossor</i>	Northern Brook Lamprey	G4	S3	SC	SC	SAR	1	50	1	50	1	50	secondary

Ecological systems summary for tertiary watershed 2BA

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	17575.50	3.47	6566.69	37.36	8799.81	50.07	8460.13	48.14
Stream Systems	439607.44	86.67	37965.81	8.64	97079.25	22.08	96502.13	21.95
Lake Systems	34280.50	6.76	8308.69	24.24	10527.19	30.71	10527.19	30.71
Wetland Systems	13859.69	2.73	867.56	6.26	1347.06	9.72	1347.06	9.72
Tertiary watershed	507193.75	100.00	54545.38	10.75	118590.25	23.38	117673.44	23.20

Ecological systems details for tertiary watershed 2BA

System Integer	# of patches in 2BA	Total area (ha) in 2BA	% of total area in 2BA	# of patches in federal lands	Total area (ha) in federal lands	% of system in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																
Coastal Systems																
101	46	512.56	0.10	2	0.63	0.12	20	175.44	34.23	22	176.06	34.35	28	176.13	176.13	34.36
103	6	79.75	0.02	1	0.06	0.08	3	32.38	40.60	3	32.38	40.60	6	61.50	61.50	77.12
104	238	597.88	0.12	2	0.13	0.02	153	279.31	46.72	154	279.38	46.73	190	279.44	279.44	46.74
105	61	237.69	0.05	2	0.63	0.26	31	109.63	46.12	32	110.19	46.36	38	124.25	124.25	52.27
106	5	25.19	0.00			0.00	1	5.56	22.08	1	5.56	22.08	6	16.69	16.69	66.25
107	3	33.38	0.01			0.00	1	15.31	45.88	1	15.31	45.88	2	33.50	33.50	100
108	192	378.56	0.07	1	0.06	0.02	116	203.56	53.77	117	203.63	53.79	138	203.69	203.69	53.81
113	6	16.63	0.00			0.00	1	7.19	43.23	1	7.19	43.23	3	16.25	16.25	97.74

System Integer	# of patches in 2BA	Total area (ha) in 2BA	% of total area in 2BA	# of patches in federal lands	Total area (ha) in federal lands	% of system in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Coastal Systems continued																
116	6	4.44	0.00			0.00	4	3.06	69.01	4	3.06	69.01	6	4.31	4.31	97.18
125	204	9401.25	1.85			0.00	100	3800.50	40.43	100	3800.50	40.43	129	3800.50	3800.50	40.43
127	47	4224.00	0.83			0.00	17	649.31	15.37	17	649.31	15.37	25	2799.44	2459.75	66.27
199	164	2045.25	0.40	1	0.06	0.00	88	1284.13	62.79	88	1284.13	62.79	128	1284.13	1284.13	62.79
Stream Systems																
201	4	610.69	0.12			0.00	2	186.31	30.51	2	186.31	30.51	7	577.06	560.38	94.49
202	10	1037.50	0.20			0.00	2	331.06	31.91	2	331.06	31.91	4	653.13	653.13	62.95
203	23	4756.31	0.94			0.00	7	92.38	1.94	7	92.38	1.94	11	2554.75	2554.31	53.71
204	4	515.50	0.10			0.00			0.00			0.00	3	515.44	504.94	99.99
205	49	1588.38	0.31			0.00	3	21.63	1.36	3	21.63	1.36	34	417.56	417.56	26.29
206	27	2341.69	0.46			0.00	3	11.81	0.50	3	11.81	0.50	8	1777.56	1777.56	75.91
207	18	2736.38	0.54			0.00	1	61.56	2.25	1	61.56	2.25	5	1924.81	1788.81	70.34
208	26	7532.13	1.49			0.00	1	9.13	0.12	1	9.13	0.12	12	4629.06	4629.06	61.46
209	178	12520.44	2.47			0.00	26	2109.75	16.85	26	2109.75	16.85	32	2109.88	2109.88	16.85
210	49	8130.13	1.60			0.00	6	212.00	2.61	6	212.00	2.61	8	1553.38	1477.88	19.11
211	56	8340.88	1.64			0.00	5	184.88	2.22	5	184.88	2.22	29	340.31	337.56	4.08
212	159	35810.31	7.06			0.00	41	4097.63	11.44	41	4097.63	11.44	43	4607.31	4607.31	12.87
213	397	83814.25	16.53			0.00	44	6126.56	7.31	44	6126.56	7.31	72	7299.69	7299.69	8.71
214	145	37657.50	7.42			0.00	32	6310.19	16.76	32	6310.19	16.76	50	7314.38	7314.38	19.42
215	14	1340.38	0.26			0.00	3	5.31	0.40	3	5.31	0.40	5	612.38	612.38	45.69
216	33	4901.50	0.97			0.00	5	21.75	0.44	5	21.75	0.44	8	1833.38	1833.38	37.40
217	271	83160.38	16.40			0.00	20	5075.25	6.10	20	5075.25	6.10	26	5189.06	5189.06	6.24
218	102	22723.50	4.48			0.00	11	1070.81	4.71	11	1070.81	4.71	20	1922.69	1922.69	8.46
219	81	36494.81	7.20			0.00	31	2827.75	7.75	31	2827.75	7.75	63	3053.56	3053.56	8.37
220	40	18880.63	3.72			0.00	11	1906.81	10.10	11	1906.81	10.10	19	10706.94	10706.94	56.71
221	106	6811.75	1.34			0.00	19	1132.31	16.62	19	1132.31	16.62	24	4975.00	4975.00	73.04
222	46	15488.44	3.05			0.00	11	966.38	6.24	11	966.38	6.24	17	4566.50	4566.50	29.48
223	23	1852.69	0.37			0.00	5	108.38	5.85	5	108.38	5.85	14	1165.44	1158.25	62.91
224	19	2477.88	0.49			0.00	6	118.69	4.79	6	118.69	4.79	8	421.00	419.94	16.99
225	4	557.38	0.11			0.00	1	122.25	21.93	1	122.25	21.93	4	529.63	529.63	95.02
226	4	2016.81	0.40			0.00	2	196.44	9.74	2	196.44	9.74	3	2016.75	1956.69	100.00

System Integer	# of patches in 2BA	Total area (ha) in 2BA	% of total area in 2BA	# of patches in federal lands	Total area (ha) in federal lands	% of system in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Stream Systems continued																
227	40	15618.56	3.08			0.00	12	3615.25	23.15	12	3615.25	23.15	24	8148.25	8148.25	52.17
228	16	1412.19	0.28			0.00	7	102.56	7.26	7	102.56	7.26	5	589.19	589.19	41.72
229	1	73.19	0.01			0.00			0.00			0.00	1	73.19	73.19	100.00
230	11	171.88	0.03			0.00	4	6.13	3.56	4	6.13	3.56	7	130.06	130.06	75.67
231	1	316.38	0.06			0.00			0.00			0.00	1	316.38	316.38	100.00
233	4	1259.69	0.25			0.00	3	191.69	15.22	3	191.69	15.22	4	1199.38	1192.50	95.21
235	6	683.44	0.13			0.00			0.00			0.00	5	635.94	635.94	93.05
236	1	4.38	0.00			0.00			0.00			0.00				0.00
242	4	798.75	0.16			0.00	1	66.19	8.29	1	66.19	8.29	3	798.69	786.56	99.99
245	2	745.88	0.15			0.00	1	420.13	56.33	1	420.13	56.33	3	745.88	622.06	100.00
246	1	62.94	0.01			0.00			0.00			0.00	1	62.94	57.44	100.00
248	7	915.38	0.18			0.00			0.00			0.00	3	912.50	904.75	99.69
249	9	2462.56	0.49			0.00	1	46.94	1.91	1	46.94	1.91	3	2143.88	2122.69	87.06
250	6	1884.88	0.37			0.00			0.00			0.00	3	1884.63	1844.94	99.99
251	8	349.50	0.07			0.00	1	27.44	7.85	1	27.44	7.85	3	290.56	268.75	83.14
253	13	3372.81	0.66			0.00	1	6.38	0.19	1	6.38	0.19	7	1993.81	1979.00	59.11
254	31	5339.25	1.05			0.00	2	139.38	2.61	2	139.38	2.61	40	3850.63	3837.25	72.12
Lake Systems																
309	8	4950.50	0.98			0.00	8	3954.63	79.88	8	3954.63	79.88	17	4950.50	4950.50	100.00
315	13	4989.94	0.98			0.00	3	1037.63	20.79	3	1037.63	20.79	22	1252.00	1252.00	25.09
322	3	694.06	0.14			0.00	2	466.38	67.19	2	466.38	67.19	3	694.06	694.06	100.00
325	11	59.63	0.01			0.00	1	0.88	1.47	1	0.88	1.47	5	5.50	5.50	9.22
326	163	2339.06	0.46			0.00	46	675.94	28.90	46	675.94	28.90	106	894.63	894.63	38.25
327	4	0.81	0.00			0.00			0.00			0.00				0.00
328	56	88.38	0.02			0.00	7	5.88	6.65	7	5.88	6.65	10	6.81	6.81	7.71
329	116	439.50	0.09			0.00	26	127.31	28.97	26	127.31	28.97	44	127.38	127.38	28.98
330	27	483.56	0.10			0.00	6	71.63	14.81	6	71.63	14.81	8	241.31	241.31	49.90
331	154	628.44	0.12			0.00	14	27.38	4.36	14	27.38	4.36	16	184.44	184.44	29.35
332	4	4.63	0.00			0.00	1	0.13	2.70	1	0.13	2.70	1	0.13	0.13	2.70
333	2038	16548.25	3.26			0.00	181	1685.75	10.19	181	1685.75	10.19	280	1795.81	1795.81	10.85
334	215	245.19	0.05			0.00	30	44.44	18.12	30	44.44	18.12	33	44.44	44.44	18.12

System Integer	# of patches in 2BA	Total area (ha) in 2BA	% of total area in 2BA	# of patches in federal lands	Total area (ha) in federal lands	% of system in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Lake Systems continued																
335	23	60.06	0.01			0.00			0.00			0.00	3	8.94	8.94	14.88
336	1581	2748.50	0.54			0.00	125	210.75	7.67	125	210.75	7.67	135	321.25	321.25	11.69
Wetland Systems																
407	5	53.38	0.01			0.00	1	32.25	60.42	1	32.25	60.42	5	53.38	53.38	100.00
408	5	346.94	0.07			0.00			0.00			0.00	5	346.94	346.94	100.00
409	579	1032.50	0.20			0.00	28	36.69	3.55	28	36.69	3.55	33	40.50	40.50	3.92
410	418	1042.50	0.21			0.00	39	53.31	5.11	39	53.31	5.11	46	160.94	160.94	15.44
Non-Target Ecological Systems																
Coastal Systems																
121	2	5.56	0.00			0.00			0.00			0.00				0.00
124	4	13.38	0.00			0.00			0.00			0.00				0.00
Wetland Systems																
411	1893	2828.38	0.56			0.00	169	207.25	7.33	169	207.25	7.33	192	207.25	207.25	7.33
412	2682	8556.00	1.69	1	0.06	0.00	249	538.00	6.29	250	538.06	6.29	306	538.06	538.06	6.29
Unclassified Ecological Systems																
2	6	37.63	0.01			0.00	4	36.75	97.67	4	36.75	97.67	5	36.75	36.75	97.67
3	1	0.06	0.00			0.00			0.00			0.00				0.00
5	528	1078.56	0.21	173	11.50	1.07	172	629.50	58.36	276	637.31	59.09	287	637.31	637.31	59.09
6	1230	792.00	0.16			0.00	297	199.31	25.17	297	199.31	25.17	374	199.63	199.63	25.21

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Pic

Tertiary Watershed 2BB

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area: 673,989 hectares (1,665,427 acres)

Land Ownership: Crown Land ~ 95%
Private Land ~ 5%

Planning Authority: 100% Thunder Bay District

General Description:

Tertiary watershed 2BB drains into northern Lake Superior. There are approximately 1,176 hectares of coastal systems, 616,297 hectares of stream systems, 31,390 hectares of lakes and 22,802 hectares of wetlands. The Pic River and Black River are the major drainages in this watershed. Mixed forests (primarily coniferous) are the dominant land cover in the basin. Dense stands of pure coniferous forest are also widespread, while a few patches of sparse deciduous forest persist throughout. Open fens and treed bogs also occur in small patches.

Land Use:

Forestry has been the main land use in recent years, however it was infrequent historically. A few small areas of developed land, concentrated around the few roads in the region, are also present. The communities of Pic River, Heron Bay, Manitouwadge and Hillsport are within this tertiary watershed.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2BB is 7,542 hectares constituting approximately 1.1% of the watershed's total area. The majority of these lands (6,139 ha) are located in provincially



protected areas. There are approximately 585 hectares of protected coastal areas, 6,168 hectares of protected stream systems, 349 hectares of protected lakes and 405 hectares of protected wetlands.

Species and Vegetation Community Targets:

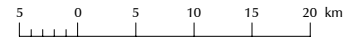
Two species targets occur in watershed 2BB; Bald Eagle (*Haliaeetus leucocephalus*) and Northern Brook Lamprey (*Ichthyomyzon fossor*), which are both secondary targets. None of the known occurrences of these species are from protected or conservation lands. There are no documented occurrences of rare vegetation communities in this watershed.

Conservation Blueprint:

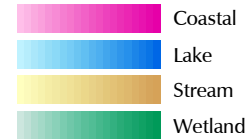
The Conservation Blueprint includes 915 hectares of coastal areas, 109,560 hectares of stream systems, 8,617 hectares of lakes and 2,108 hectares of wetlands. The Conservation Blueprint also includes the only known occurrences for Bald Eagle and Northern Brook Lamprey.

Great Lakes Conservation Blueprint for Biodiversity

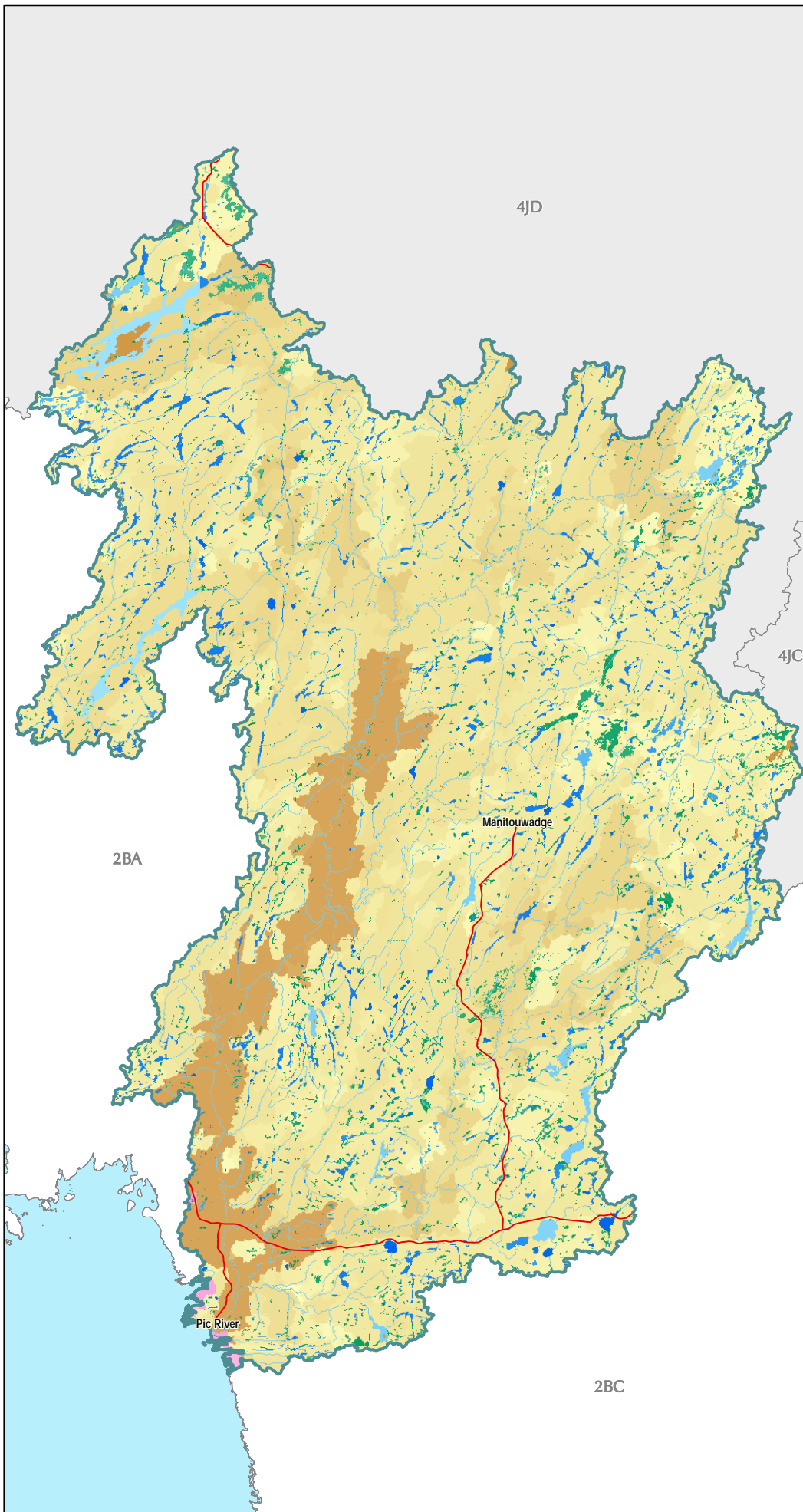
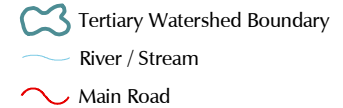
PIC WATERSHED 2BB



Aquatic Ecological Systems



Other Information



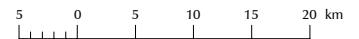
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Great Lakes Conservation Blueprint for Biodiversity

PIC WATERSHED 2BB

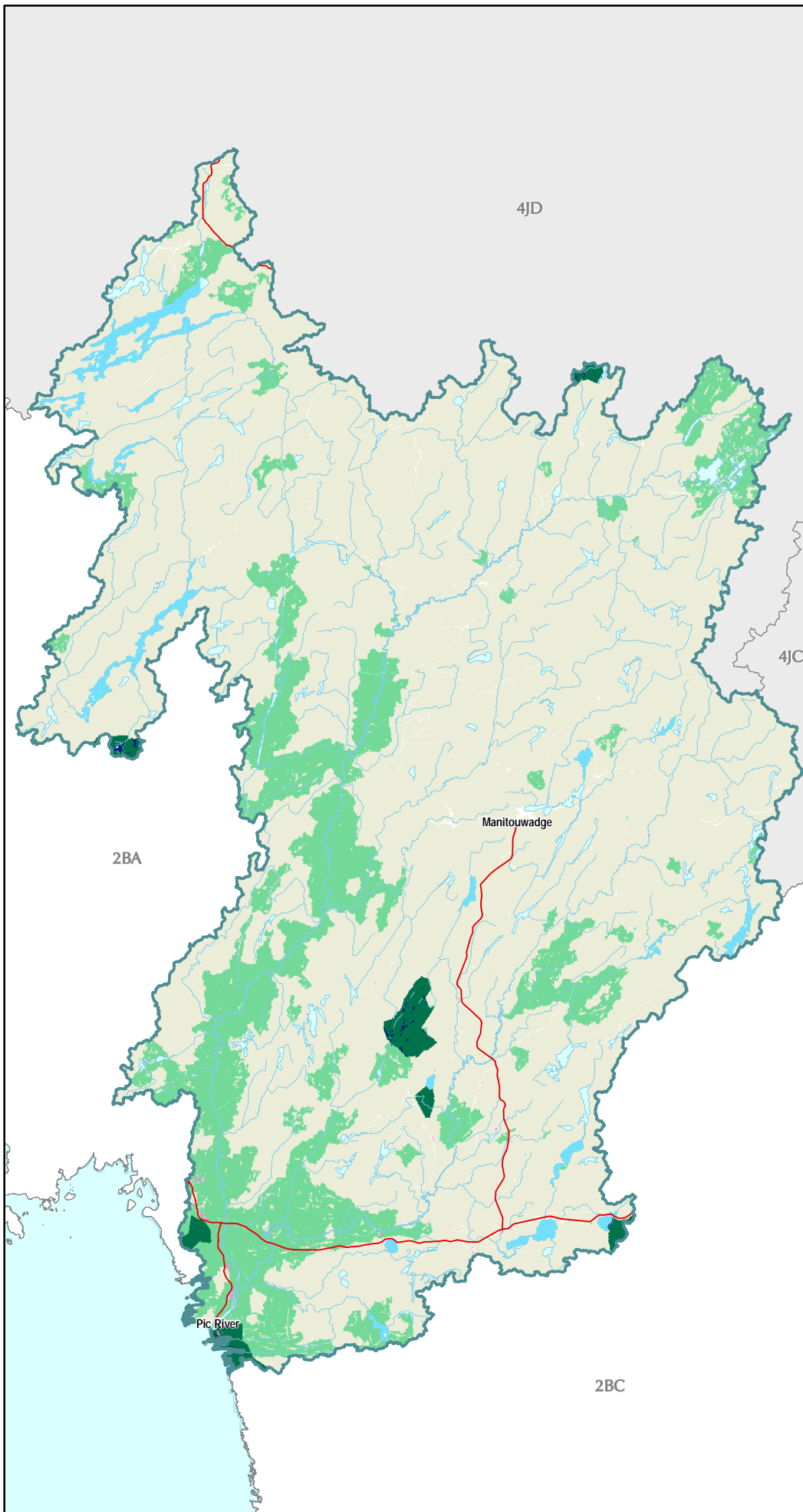


Aquatic Conservation Blueprint

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- Priority Stewardship Areas - Non-Natural

Other Information

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- Lake / Water Course
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- Urban Area
- Natural Cover



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Documented extant significant species information for tertiary watershed 2BB

Number of pops in 2BB	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species												
1	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S4B,SZN	NAR	END-R	SAR	0	0	1	100	secondary
1	<i>Ichthyomyzon fossor</i>	Northern Brook Lamprey	G4	S3	SC	SC	SAR	0	0	1	100	secondary

Ecological systems summary for tertiary watershed 2BB

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	1234.88	0.18	598.19	48.44	928.56	75.19	928.44	75.18
Stream Systems	616487.13	91.47	6168.69	1.00	109560.50	17.77	108794.94	17.65
Lake Systems	31390.38	4.66	349.94	1.11	8617.75	27.45	8617.75	27.45
Wetland Systems	22802.31	3.38	405.06	1.78	2108.31	9.25	2108.31	9.25
Tertiary watershed	673989.44	100.00	7542.63	1.12	121235.75	17.99	120470.06	17.87

Ecological systems details for tertiary watershed 2BB

System Integer	# of patches in 2BB	Total area (ha) in 2BB	% of total area in 2BB	# of patches in federal lands	Total area (ha) in federal lands	% of system in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Non-Target Ecological Systems																
Coastal Systems																
101	9	102.81	0.02	5	64.00	62.25			0.00	5	64.00	62.25	7	64.50	64.50	62.74
104	8	69.00	0.01	6	32.38	46.92			0.00	6	32.38	46.92	8	35.44	35.44	51.36
105	4	14.13	0.00	2	5.19	36.73			0.00	2	5.19	36.73	4	14.13	14.13	100
107	2	19.56	0.00	1	2.81	14.38			0.00	1	2.81	14.38	2	19.69	19.69	100
108	4	9.56	0.00	4	9.56	100.00			0.00	4	9.56	100.00	5	9.63	9.63	100
113	3	2.44	0.00	3	2.44	100.00			0.00	3	2.44	100.00	3	2.44	2.44	100
125	36	748.06	0.11	15	300.81	40.21			0.00	15	300.81	40.21	18	598.00	598.00	79.94
127	29	210.69	0.03	2	166.75	79.15	9	1.13	0.53	11	167.88	79.68	46	171.63	171.50	81.46
199	9	58.56	0.01	5	13.13	22.41			0.00	5	13.13	22.41	7	13.13	13.13	22.41
201	1	159.56	0.02			0.00			0.00			0.00	2	159.56	156.00	100
202	7	597.94	0.09			0.00			0.00			0.00	3	405.13	405.13	67.75

System Integer	# of patches in 2BB	Total area (ha) in 2BB	% of total area in 2BB	# of patches in federal lands	Total area (ha) in federal lands	% of system in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Stream Systems																
203	69	8368.63	1.24			0.00			0.00			0.00	4	794.75	794.75	9.50
204	3	337.13	0.05			0.00			0.00			0.00	3	337.13	334.38	100.00
205	150	14931.75	2.22			0.00			0.00			0.00	52	6959.19	6888.75	46.61
206	53	9046.25	1.34			0.00			0.00			0.00	6	3172.25	3165.31	35.07
207	50	182.13	0.03			0.00			0.00			0.00	64	113.56	112.88	62.35
208	221	27444.00	4.07			0.00			0.00			0.00	95	1051.63	1051.63	3.83
209	59	8228.38	1.22	3	161.38	1.96			0.00	3	161.38	1.96	6	1069.44	1069.13	13.00
210	65	17985.81	2.67			0.00			0.00			0.00	5	1138.31	1138.31	6.33
211	182	24358.50	3.61			0.00			0.00			0.00	20	3673.13	3673.13	15.08
212	60	12562.88	1.86	2	87.38	0.70	3	9.69	0.08	5	97.06	0.77	9	1158.06	1154.31	9.22
213	546	79949.75	11.86	2	5.13	0.01	8	801.44	1.00	10	806.56	1.01	76	2941.44	2941.44	3.68
214	347	60648.25	9.00			0.00	10	1655.06	2.73	10	1655.06	2.73	20	4871.69	4871.69	8.03
215	34	4548.63	0.67			0.00			0.00			0.00	6	1715.00	1715.00	37.70
216	71	9289.56	1.38			0.00			0.00			0.00	16	1706.94	1706.94	18.37
217	361	90903.94	13.49	2	249.44	0.27	31	2139.69	2.35	33	2389.13	2.63	44	2637.25	2637.25	2.90
218	172	41605.06	6.17			0.00			0.00			0.00	4	1456.38	1456.38	3.50
219	31	30807.19	4.57			0.00			0.00			0.00	6	11876.00	11870.19	38.55
220	58	16600.75	2.46			0.00			0.00			0.00	31	2487.31	2473.31	14.98
221	165	32778.00	4.86			0.00	1	38.13	0.12	1	38.13	0.12	104	2023.00	2017.63	6.17
222	19	8499.44	1.26			0.00			0.00			0.00	3	864.13	864.13	10.17
223	4	201.88	0.03			0.00			0.00			0.00	3	184.38	183.94	91.33
224	10	4302.13	0.64			0.00			0.00			0.00	7	4254.00	4211.13	98.88
225	18	7208.06	1.07			0.00			0.00			0.00	3	1366.06	1366.06	18.95
226	103	30476.31	4.52			0.00			0.00			0.00	9	1923.25	1923.25	6.31
227	63	14480.75	2.15			0.00			0.00			0.00	32	1807.94	1800.50	12.49
228	7	363.19	0.05			0.00			0.00			0.00	3	362.06	357.13	99.69
229	2	1.38	0.00			0.00			0.00			0.00				0.00
230	5	788.31	0.12			0.00			0.00			0.00	5	776.94	776.94	98.56
231	27	4832.88	0.72			0.00			0.00			0.00	3	912.94	912.88	18.89
232	1	20.56	0.00			0.00			0.00			0.00				0.00
233	2	80.88	0.01			0.00			0.00			0.00	2	80.88	80.88	100.00
235	12	2413.38	0.36			0.00			0.00			0.00	4	1068.06	1068.06	44.26

System Integer	# of patches in 2BB	Total area (ha) in 2BB	% of total area in 2BB	# of patches in federal lands	Total area (ha) in federal lands	% of system in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Stream Systems continued																
236	1	39.50	0.01			0.00			0.00			0.00				0.00
239	2	58.69	0.01			0.00			0.00			0.00	2	58.69	55.13	100.00
241	6	0.69	0.00			0.00			0.00			0.00	6	0.69	0.69	100.00
243	3	124.44	0.02			0.00			0.00			0.00	2	124.31	124.31	99.90
247	20	6.88	0.00			0.00			0.00			0.00	24	6.88	6.88	100.00
248	19	6.81	0.00	12	1.06	15.60			0.00	12	1.06	15.60	25	6.69	6.69	98.17
249	8	1812.31	0.27			0.00			0.00			0.00	4	971.94	971.94	53.63
250	53	4.94	0.00			0.00	7	0.56	11.39	7	0.56	11.39	61	4.63	4.63	93.67
251	4	613.00	0.09			0.00			0.00			0.00	3	612.88	612.88	99.98
252	2	3004.75	0.45	1	229.44	7.64			0.00	1	229.44	7.64	5	3004.75	2924.25	100.00
253	24	8801.75	1.31	3	38.31	0.44			0.00	3	38.31	0.44	11	2601.44	2601.44	29.56
254	12	36820.88	5.46	1	0.13	0.00	2	751.88	2.04	3	752.00	2.04	20	36819.88	36307.75	100.00
Lake Systems																
309	3	4442.94	0.66			0.00			0.00			0.00	9	4442.88	4442.88	100.00
314	1	449.44	0.07			0.00			0.00			0.00	1	449.44	449.44	100.00
315	27	3032.94	0.45			0.00			0.00			0.00	13	908.00	908.00	29.94
317	4	290.81	0.04			0.00			0.00			0.00	4	290.50	290.50	99.89
322	2	548.69	0.08			0.00			0.00			0.00	2	548.69	548.69	100.00
325	40	95.19	0.01			0.00			0.00			0.00	5	3.31	3.31	3.48
326	215	2308.69	0.34			0.00	1	1.44	0.06	1	1.44	0.06	5	234.81	234.81	10.17
327	12	37.75	0.01			0.00			0.00			0.00				0.00
328	97	246.19	0.04			0.00			0.00			0.00	3	4.38	4.38	1.78
329	62	279.00	0.04			0.00			0.00			0.00	9	2.19	2.19	0.78
330	130	1518.50	0.23			0.00			0.00			0.00	4	400.25	400.25	26.36
331	253	1149.88	0.17	2	0.38	0.03			0.00	2	0.38	0.03	5	7.19	7.19	0.63
332	27	65.75	0.01			0.00			0.00			0.00	3	8.56	8.56	13.02
333	1286	12678.88	1.88	8	15.38	0.12	42	303.44	2.39	50	318.81	2.51	97	809.94	809.94	6.39
334	149	237.44	0.04	1	0.44	0.18	1	0.13	0.05	2	0.56	0.24	5	2.44	2.44	1.03
335	103	463.31	0.07			0.00	1	0.31	0.07	1	0.31	0.07	4	4.31	4.31	0.93
336	893	3544.81	0.53	3	0.63	0.02	11	27.63	0.78	14	28.25	0.80	19	500.69	500.69	14.12

System Integer	# of patches in 2BB	Total area (ha) in 2BB	% of total area in 2BB	# of patches in federal lands	Total area (ha) in federal lands	% of system in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Wetland Systems																
407	182	725.75	0.11			0.00	3	3.06	0.42	3	3.06	0.42	12	335.06	335.06	46.17
408	39	1084.00	0.16			0.00	2	35.88	3.31	2	35.88	3.31	8	891.88	891.88	82.28
409	1630	3328.63	0.49	4	5.06	0.15	18	19.19	0.58	22	24.25	0.73	26	26.69	26.69	0.80
410	1157	4491.38	0.67	2	5.19	0.12	25	53.75	1.20	27	58.94	1.31	39	571.69	571.69	12.73
Non-Target Ecological Systems																
Coastal Systems																
124	1	0.06	0.00			0.00			0.00			0.00				0.00
Wetland Systems																
411	2606	5321.75	0.79	4	5.56	0.10	30	47.00	0.88	34	52.56	0.99	41	52.56	52.56	0.99
412	2020	7850.81	1.16			0.00	42	230.38	2.93	42	230.38	2.93	76	230.44	230.44	2.94
Unclassified Ecological Systems																
2	13	189.31	0.03			0.00			0.00			0.00				0.00
3	1	0.19	0.00	1	0.19	100.00			0.00	1	0.19	100.00	1	0.19	0.19	100.00
5	125	90.94	0.01	4	1.19	1.31	2	0.13	0.14	6	1.31	1.44	4	1.19	1.19	1.31
6	931	1983.81	0.29	1	0.06	0.00	20	19.38	0.98	21	19.44	0.98	30	19.44	19.44	0.98

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

White

Tertiary Watershed 2BC

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area: 769,470 hectares (1,901,361 acres)

Land Ownership: Crown Land ~ 69%
Private Land ~ 1%
National Parks ~ 30%

Planning Authority: 70% Thunder Bay District
30% Algoma District

General Description:

Tertiary watershed 2BC drains into northeastern Lake Superior and includes the White River and Pukaskwa River. The watershed also contains Michipicoten Island and Caribou Island. There are 5,954 hectares of coastal areas, 656,089 hectares of stream systems, 49,397 hectares of lakes and 35,516 hectares of wetlands. A significant stretch of northeastern Lake Superior coastline is found in this watershed. Primarily coniferous mixed forests are the dominant vegetation type within the catchment area. Sparse coniferous and deciduous forests also occur throughout the watershed. The few wetlands present are treed fens, treed bogs and open bogs.

Land Use:

Very little land conversion has occurred in this watershed. A few patches of recent cutover exist in the northern reaches, and a handful of small developed areas are scattered throughout. Pic, Mobert, White River and Amyot are the major communities in this watershed.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2BC totals 253,013 hectares, constituting approximately 32% of the



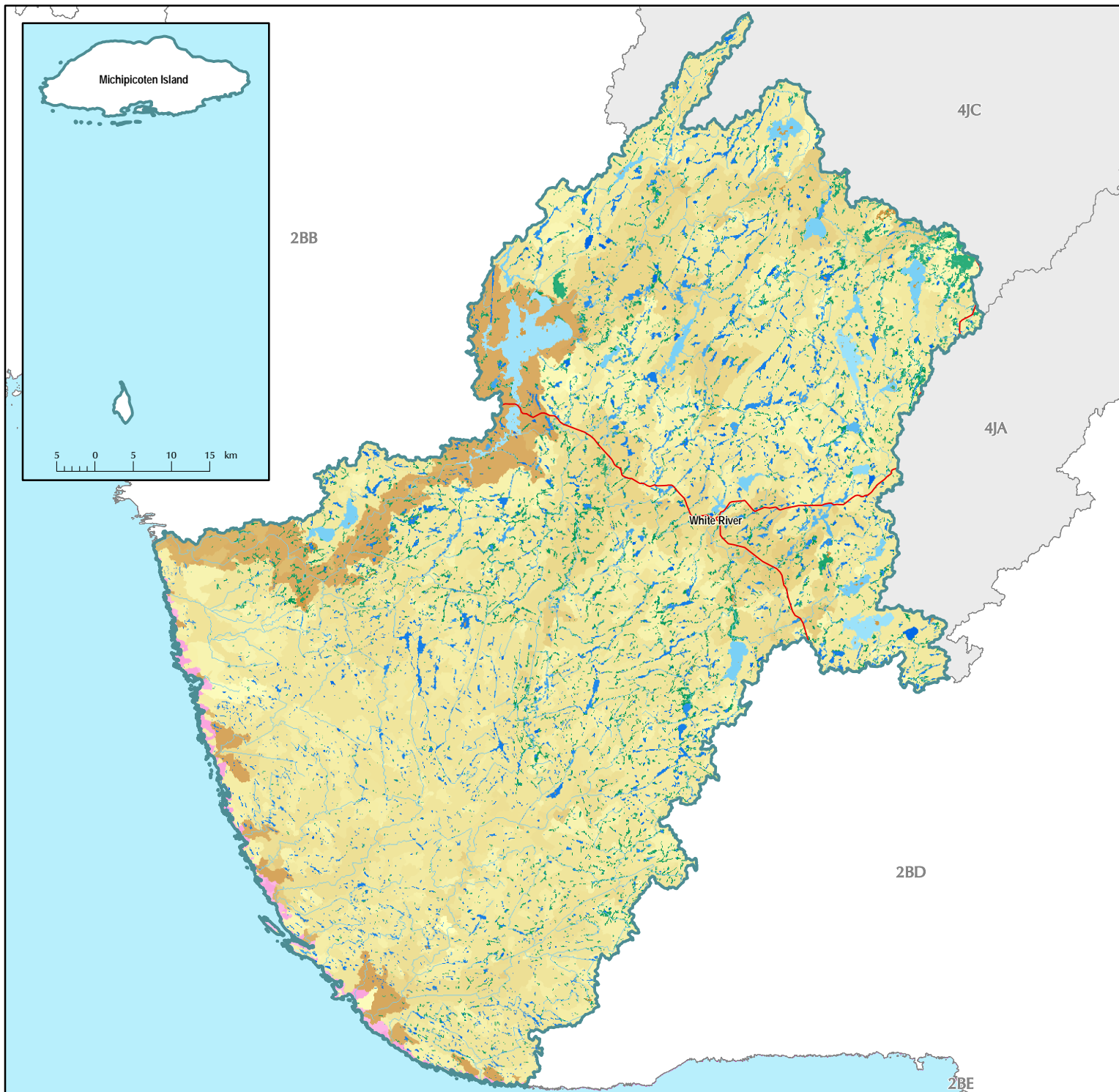
watershed's total area. The majority of the protected land (181,080 ha) is located in Pukaskwa National Park, which comprises about a third of the entire tertiary watershed. There are approximately 5,853 hectares of protected coastal areas, 214,904 hectares of protected stream systems, 8,500 hectares of protected lakes and 4,170 hectares of protected wetlands.

Species and Vegetation Community Targets:

One species target occurs in 2BC; the secondary target Bald Eagle (*Haliaeetus leucocephalus*). No occurrences for Bald Eagle are recorded for a protected area. There are no documented occurrences of rare vegetation communities in this watershed.

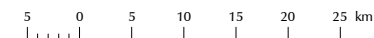
Conservation Blueprint:

The Conservation Blueprint includes approximately 5,912 hectares of coastal areas, 276,781 hectares of stream systems, 20,389 hectares of lakes and 5,120 hectares of wetlands. The Conservation Blueprint does not include the known occurrences for Bald Eagle as it is a secondary target.

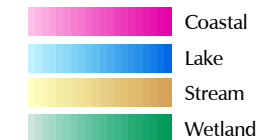


Great Lakes Conservation Blueprint for Biodiversity

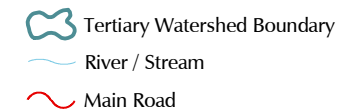
WHITE WATERSHED 2BC



Aquatic Ecological Systems



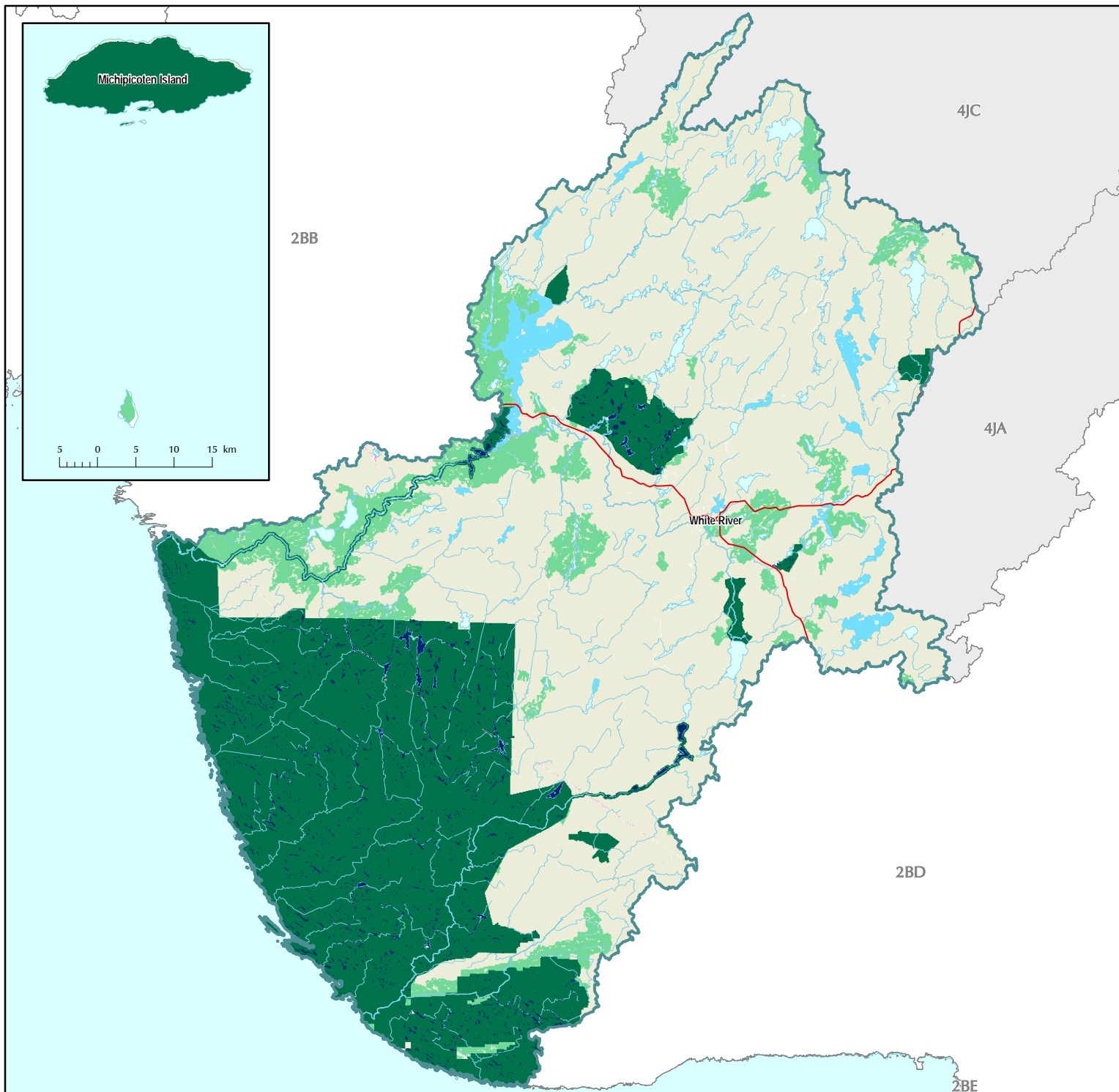
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

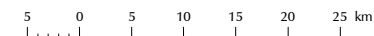
For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

WHITE WATERSHED 2BC



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Documented extant significant species information for tertiary watershed 2BC

Number of pops in 2BC	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species												
1	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S4B,SZN	NAR	END-R	SAR	0	0	0	0	secondary

Ecological systems summary for tertiary watershed 2BC

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	6230.13	0.81	6129.56	98.39	6187.94	99.32	6187.94	99.32
Stream Systems	656953.94	85.38	215237.56	32.76	277114.19	42.18	276923.75	42.15
Lake Systems	49411.63	6.42	8514.44	17.23	20403.94	41.29	20403.94	41.29
Wetland Systems	35516.00	4.62	4170.44	11.74	5120.00	14.42	5120.00	14.42
Tertiary watershed	769470.44	100.00	253013.06	32.88	309144.13	40.18	308953.69	40.15

Ecological systems details for tertiary watershed 2BC

System Integer	# of patches in 2BC	Total area (ha) in 2BC	% of total area in 2BC	# of patches in federal lands	Total area (ha) in federal lands	% of system in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																
Coastal Systems																
101	23	332.63	0.04	15	275.44	82.81	8	57.13	17.17	23	332.56	99.98	32	332.69	332.69	100
102	2	16.81	0.00	1	6.69	39.78	1	10.13	60.22	2	16.81	100.00	2	17.06	17.06	100
103	1	3.88	0.00	1	3.81	98.39			0.00	1	3.81	98.39	1	3.88	3.88	100
104	74	286.44	0.04	58	204.94	71.55	17	65.56	22.89	75	270.50	94.44	96	270.56	270.56	94.46
105	27	112.75	0.01	18	90.44	80.21	9	22.19	19.68	27	112.63	99.89	37	112.69	112.69	99.94
106	6	27.94	0.00	6	27.94	100.00			0.00	6	27.94	100.00	6	27.94	27.94	100
107	2	10.56	0.00	2	10.56	100.00			0.00	2	10.56	100.00	4	10.63	10.63	100
108	43	131.13	0.02	33	104.69	79.84	11	24.38	18.59	43	129.06	98.43	50	129.13	129.13	98.47
113	5	20.13	0.00	2	16.13	80.12	3	4.00	19.88	5	20.13	100.00	5	20.13	20.13	100
116	3	5.69	0.00	2	5.31	93.41	1	0.38	6.59	3	5.69	100.00	4	5.69	5.69	100
118	1	1.31	0.00	1	1.31	100.00			0.00	1	1.31	100.00	1	1.31	1.31	100
120	1	2.31	0.00	1	2.31	100.00			0.00	1	2.31	100.00	1	2.31	2.31	100

System Integer	# of patches in ZBC	Total area (ha) in ZBC	% of total area in ZBC	# of patches in federal lands	Total area (ha) in federal lands	% of system in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Coastal Systems continued																
125	119	3550.38	0.46	104	2909.75	81.96	16	616.06	17.35	120	3525.81	99.31	168	3525.75	3525.75	99.31
127	46	1452.31	0.19	36	1032.38	71.08	12	362.19	24.94	47	1394.56	96.02	63	1452.31	1452.31	100
199	17	275.88	0.04	17	275.88	100.00			0.00	17	275.88	100.00	31	275.88	275.88	100
Stream Systems																
201	4	1879.69	0.24	4	1879.69	100.00			0.00	4	1879.69	100.00	4	1879.69	1879.69	100.00
202	10	527.50	0.07	6	438.69	83.16	3	6.75	1.28	9	445.44	84.44	9	445.44	445.44	84.44
203	129	5236.94	0.68	6	45.94	0.88	13	784.38	14.98	19	830.31	15.85	35	1101.81	1101.81	21.04
204	13	1089.00	0.14	3	487.06	44.73	1	34.00	3.12	4	521.06	47.85	6	899.63	899.63	82.61
205	174	9519.56	1.24	1	6.81	0.07	16	397.56	4.18	17	404.38	4.25	30	1619.19	1619.19	17.01
206	99	10701.88	1.39	21	4598.88	42.97	17	428.50	4.00	38	5027.38	46.98	48	5061.81	5061.81	47.30
207	22	2155.56	0.28	11	1045.56	48.51	1	37.25	1.73	12	1082.81	50.23	13	1327.50	1327.50	61.58
208	354	30766.00	4.00	7	920.31	2.99	39	3625.19	11.78	46	4545.50	14.77	61	4545.50	4545.50	14.77
209	141	14089.25	1.83	44	6478.75	45.98	13	1803.81	12.80	57	8282.56	58.79	69	8282.63	8282.63	58.79
210	158	18911.06	2.46	22	3342.69	17.68	18	1421.31	7.52	40	4764.00	25.19	48	4764.00	4764.00	25.19
211	285	17841.00	2.32	1	12.00	0.07	41	1707.81	9.57	42	1719.81	9.64	61	3427.38	3421.63	19.21
212	130	38283.00	4.98	53	23572.06	61.57	29	4144.63	10.83	82	27716.69	72.40	101	27716.56	27716.56	72.40
213	668	89833.50	11.67	44	17504.50	19.49	43	2267.75	2.52	86	19772.25	22.01	153	19773.94	19773.94	22.01
214	686	56946.13	7.40	11	1253.63	2.20	73	1713.31	3.01	84	2966.94	5.21	136	5777.13	5776.94	10.14
215	75	3033.56	0.39	11	239.38	7.89	5	65.31	2.15	16	304.69	10.04	25	1010.19	1010.19	33.30
216	98	7885.88	1.02	7	1610.00	20.42	8	210.38	2.67	15	1820.38	23.08	21	1868.25	1868.25	23.69
217	407	134215.63	17.44	68	61409.25	45.75	60	13417.94	10.00	124	74827.19	55.75	203	78613.88	78613.88	58.57
218	220	29092.00	3.78	40	13357.00	45.91	6	686.06	2.36	46	14043.06	48.27	65	14043.25	14043.25	48.27
219	37	16398.13	2.13	20	7127.88	43.47	5	50.50	0.31	25	7178.38	43.78	43	10565.38	10565.38	64.43
220	58	26510.19	3.45	14	11876.75	44.80	12	3031.50	11.44	25	14908.25	56.24	36	16670.50	16670.50	62.88
221	173	34219.31	4.45			0.00	31	1138.06	3.33	31	1138.06	3.33	44	2878.75	2878.75	8.41
222	16	2103.25	0.27	2	189.81	9.02	1	6.44	0.31	3	196.25	9.33	10	1854.63	1854.63	88.18
223	17	3286.88	0.43	7	1337.75	40.70	4	955.06	29.06	11	2292.81	69.76	16	2579.00	2579.00	78.46
224	22	4345.94	0.56	3	242.50	5.58			0.00	3	242.50	5.58	10	4242.25	4230.06	97.61
225	34	4036.56	0.52	12	991.31	24.56	2	35.81	0.89	13	1027.13	25.45	20	1531.88	1531.88	37.95
226	200	31961.88	4.15			0.00	31	2452.94	7.67	31	2452.94	7.67	53	5833.56	5833.56	18.25
227	55	8012.38	1.04			0.00			0.00			0.00	20	4661.81	4596.25	58.18
229	2	40.00	0.01	2	40.00	100.00			0.00	2	40.00	100.00	2	40.00	40.00	100.00
230	19	1890.06	0.25	7	371.00	19.63	1	81.94	4.34	8	452.94	23.96	12	947.13	947.13	50.11

System Integer	# of patches in 2BC	Total area (ha) in 2BC	% of total area in 2BC	# of patches in federal lands	Total area (ha) in federal lands	% of system in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Stream Systems continued																
231	47	4861.50	0.63			0.00	12	221.56	4.56	12	221.56	4.56	16	2457.88	2457.88	50.56
232	4	445.63	0.06	4	445.63	100.00			0.00	4	445.63	100.00	4	445.63	445.63	100.00
233	15	809.19	0.11			0.00			0.00			0.00	4	761.88	745.13	94.15
235	20	644.19	0.08			0.00	1	3.25	0.50	1	3.25	0.50	9	459.69	459.69	71.36
236	2	1.50	0.00			0.00			0.00			0.00				0.00
238	3	534.50	0.07	1	226.56	42.39	2	25.50	4.77	2	252.06	47.16	3	534.50	528.56	100.00
241	6	1526.19	0.20	1	210.75	13.81	5	237.81	15.58	6	448.56	29.39	7	1194.50	1194.50	78.27
242	1	71.00	0.01	1	71.00	100.00			0.00	1	71.00	100.00	1	71.00	71.00	100.00
243	1	362.88	0.05			0.00			0.00			0.00	1	362.88	357.44	100.00
245	2	301.56	0.04	2	301.56	100.00			0.00	2	301.56	100.00	2	301.56	301.56	100.00
246	1	12.56	0.00			0.00			0.00			0.00				0.00
247	4	2924.19	0.38	2	864.19	29.55	3	137.88	4.71	5	1002.06	34.27	5	2915.44	2905.13	99.70
248	6	2028.13	0.26	3	397.56	19.60	5	320.75	15.82	8	718.31	35.42	6	2019.00	2015.00	99.55
249	5	1324.44	0.17	2	662.69	50.04	3	661.38	49.94	5	1324.06	99.97	6	1324.50	1324.50	100.00
250	89	27087.50	3.52	2	152.31	0.56	19	3054.81	11.28	21	3207.13	11.84	60	22761.69	22713.69	84.03
251	5	2051.50	0.27	4	1575.38	76.79	2	450.38	21.95	5	2025.75	98.74	7	2050.06	2050.06	99.93
252	5	388.00	0.05	1	31.56	8.13			0.00	1	31.56	8.13	6	387.81	387.81	99.95
253	3	3311.06	0.43	3	3311.06	100.00			0.00	3	3311.06	100.00	3	3311.06	3311.06	100.00
254	13	2592.69	0.34			0.00	5	657.69	25.37	5	657.69	25.37	15	1459.56	1443.25	56.30
Lake Systems																
306	11	6046.81	0.79			0.00	3	265.00	4.38	3	265.00	4.38	12	6044.19	6044.19	99.96
309	4	2587.75	0.34			0.00			0.00			0.00	5	2587.69	2587.69	100.00
313	1	255.38	0.03			0.00			0.00			0.00	1	255.38	255.38	100.00
315	32	7123.88	0.93			0.00			0.00			0.00	7	925.56	925.56	12.99
317	2	693.88	0.09			0.00			0.00			0.00	4	693.88	693.88	100.00
322	2	592.00	0.08			0.00			0.00			0.00	5	592.00	592.00	100.00
325	21	49.88	0.01	2	1.50	3.01	1	8.88	17.79	3	10.38	20.80	5	10.38	10.38	20.80
326	458	4289.94	0.56	58	155.81	3.63	28	315.63	7.36	86	471.44	10.99	135	829.25	829.25	19.33
327	11	23.19	0.00			0.00			0.00			0.00				0.00
328	64	127.38	0.02	4	2.50	1.96	7	10.88	8.54	11	13.38	10.50	11	13.38	13.38	10.50
329	77	280.75	0.04	26	89.69	31.95	2	5.06	1.80	28	94.75	33.75	46	98.25	98.25	35.00
330	334	3633.13	0.47	74	151.88	4.18	12	134.56	3.70	86	286.44	7.88	173	871.31	871.31	23.98
331	509	1707.13	0.22	72	119.63	7.01	56	166.75	9.77	128	286.38	16.78	140	396.00	396.00	23.20

System Integer	# of patches in 2BC	Total area (ha) in 2BC	% of total area in 2BC	# of patches in federal lands	Total area (ha) in federal lands	% of system in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Lake Systems continued																
332	18	20.75	0.00	938	4162.06	20058.13	1	0.81	3.92	1	0.81	3.92	1	0.81	0.81	3.92
333	2543	16090.19	2.09			0.00	220	1392.06	8.65	1155	5554.13	34.52	1949	5554.13	5554.13	34.52
334	130	171.56	0.02	35	31.81	18.54	11	18.88	11.00	46	50.69	29.54	50	50.69	50.69	29.54
335	192	745.88	0.10	9	38.69	5.19	9	41.50	5.56	18	80.19	10.75	20	80.19	80.19	10.75
336	2110	4958.13	0.64	766	1023.94	20.65	222	362.88	7.32	988	1386.81	27.97	1075	1386.81	1386.81	27.97
Wetland Systems																
407	52	172.19	0.02			0.00	1	1.38	0.80	1	1.38	0.80	6	13.06	13.06	7.59
408	79	558.50	0.07			0.00	11	33.88	6.07	11	33.88	6.07	17	221.19	221.19	39.60
409	1575	4503.44	0.59	264	332.06	7.37	87	479.13	10.64	351	811.19	18.01	383	1330.00	1330.00	29.53
410	1895	6953.75	0.90	430	808.88	11.63	198	729.69	10.49	628	1538.56	22.13	674	1770.31	1770.31	25.46
Non-Target Ecological Systems																
Wetland Systems																
411	3177	5362.31	0.70			0.00	243	402.19	7.50	243	402.19	7.50	291	402.19	402.19	7.50
412	3908	17965.81	2.33	6	1.13	0.01	418	1382.13	7.69	424	1383.25	7.70	539	1383.25	1383.25	7.70
Unclassified Ecological Systems																
2	24	864.06	0.11	1	331.69	38.39	1	1.25	0.14	2	332.94	38.53	2	332.94	332.94	38.53
3	3	14.06	0.00	3	14.06	100.00			0.00	3	14.06	100.00	3	14.06	14.06	100.00
5	355	19592.25	2.55	103	134.69	0.69	6	18643.13	95.16	109	18777.81	95.84	115	134.81	134.81	0.69
6	1547	1766.50	0.23	236	83.00	4.70	74	100.25	5.68	310	183.25	10.37	376	183.25	183.25	10.37

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Michipicoten – Magpie

Tertiary Watershed 2BD

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area: 934,030 hectares (2,307,988 acres)

Land Ownership: Crown Land ~ 79 %
Private Land ~ 20%
First Nations Lands ~1 %

Planning Authority: 82% Algoma District, 15% Sudbury District,
3% Thunder Bay District

General Description:

Tertiary watershed 2BD drains into eastern Lake Superior. The Magpie River is the primary river in this watershed. There are approximately 3,344 hectares of coastal areas, 792,642 hectares of stream systems, 87,658 hectares of lakes and 46,773 hectares of wetlands. Mixed forests are the dominant vegetation type, followed by dense and sparse deciduous forest, and sparse coniferous forest. Open fens, open bogs and treed bogs represent the few wetlands in the catchment. Forest fires have occurred in the northwest corner of the watershed.

Land Use:

Developed lands are limited to communities scattered throughout the area, including Michipicoten River and Wawa in the south, and Dubreuilville and Lochalsh to the north. Forestry activity is scattered throughout the watershed.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2BD is 75,463 hectares, constituting approximately 8.1% of the



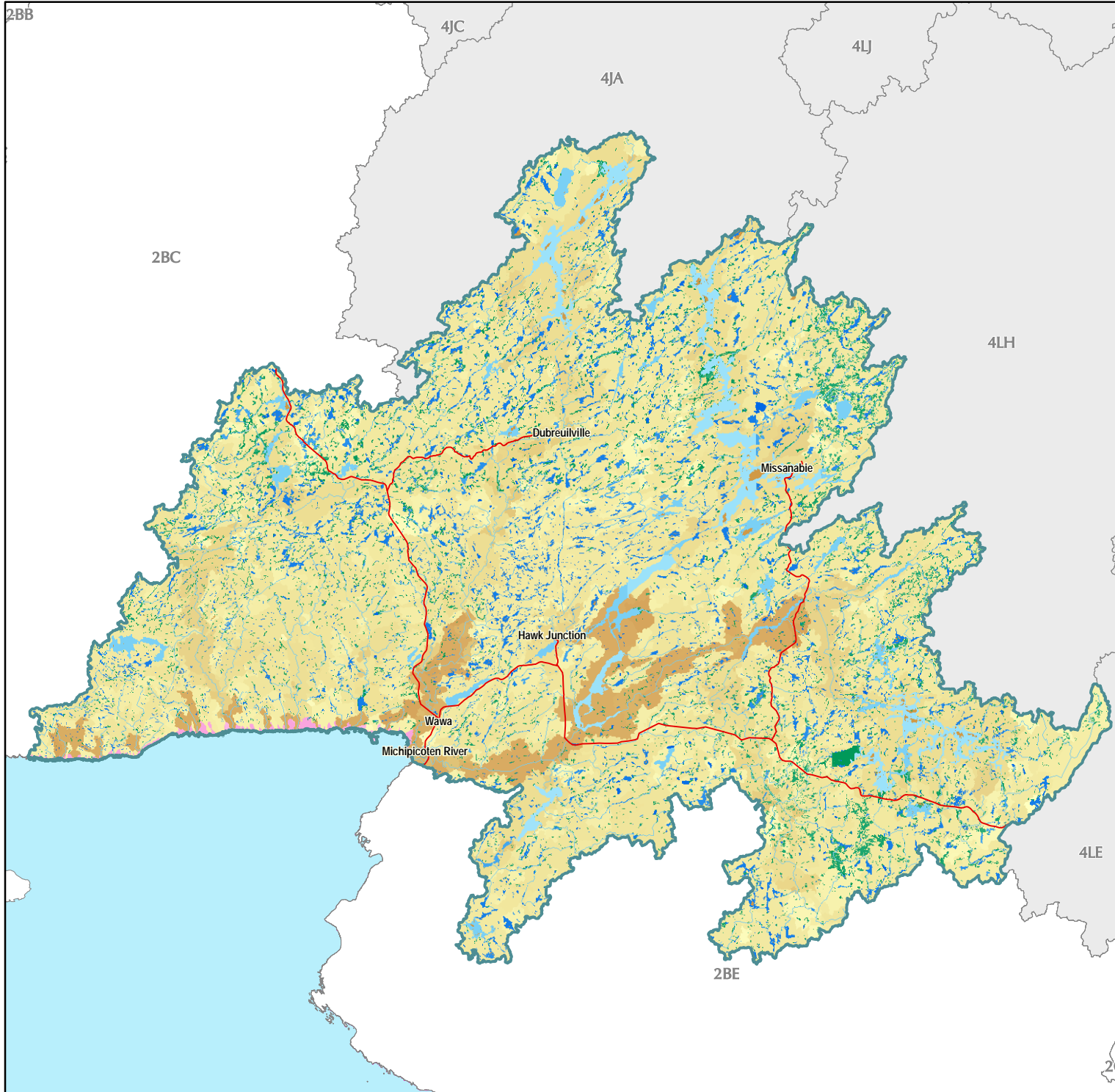
watershed's total area. The majority of these lands (73,954 ha) are located in provincially protected areas. There are about 1,635 hectares of protected coastal areas 58,210 hectares of protected stream systems, 11,742 hectares of protected lakes and 3,240 hectares of protected wetlands.

Species and Vegetation Community Targets:

Two species targets occur in watershed 2BC; the primary target Kiyi (*Coregonus kiyi*) and the secondary target Bald Eagle (*Haliaeetus leucocephalus*). There are three known occurrences for Bald Eagle in protected areas. There are no documented occurrences of rare vegetation communities in this watershed

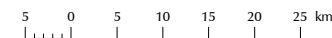
Conservation Blueprint:

The Conservation Blueprint includes 1,940 hectares of coastal areas, 113,014 hectares of stream systems, 16,065 hectares of lakes and 4,398 hectares of wetlands. The Conservation Blueprint also includes the known only occurrence of the primary target Kiyi, and three of the occurrences of Bald Eagle.

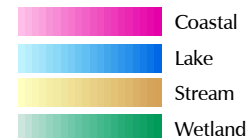


Great Lakes Conservation Blueprint for Biodiversity

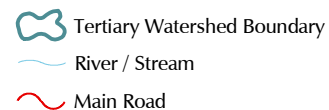
MICHIPICOTEN - MAGPIE WATERSHED 2BD



Aquatic Ecological Systems



Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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2BB

4JC

4LJ

4JA

2BC

4LH

Dubreuilville

Missanabie

Hawk Junction

Wawa

Michipicoten River

4LE

2BE

Great Lakes Conservation Blueprint for Biodiversity

MICHIPICOTEN - MAGPIE WATERSHED 2BD

5 0 5 10 15 20 25 km



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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2CB

Documented extant significant species information for tertiary watershed 2BD

Number of pops in 2BD	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in Parks and PAs	% of pops in Parks and PAs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species														
8	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S4B,SZN	NAR	END-R	SAR	3	38	3	38	3	38	secondary
1	<i>Coregonus kiyi</i>	Kiyi	G3	S3?	SC	SC	GRank SAR	0	0	0	0	1	100	4

Ecological systems summary for tertiary watershed 2BD

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	3344.69	0.36	1635.56	48.90	1940.06	58.00	1940.06	58.00
Stream Systems	792642.88	84.86	58210.44	7.34	113014.94	14.26	112669.75	14.21
Lake Systems	87658.50	9.38	11742.88	13.40	16065.88	18.33	16065.88	18.33
Wetland Systems	46773.50	5.01	3240.75	6.93	4398.44	9.40	4398.44	9.40
Tertiary watershed	934030.25	100.00	75463.06	8.08	136052.75	14.57	135707.56	14.53

Ecological systems details for tertiary watershed 2BD

System Integer	# of patches in 2BD	Total area (ha) in 2BD	% of total area in 2BD	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																
Coastal Systems																
101	19	219.38	0.02	14	140.38	63.99			0.00	14	140.38	63.99	19	142.63	142.63	65.01
102	1	1.56	0.00	1	1.50	96.00			0.00	1	1.50	96.00	1	1.56	1.56	100
104	58	125.06	0.01	25	56.13	44.88			0.00	25	56.13	44.88	30	68.13	68.13	54.47
105	18	47.50	0.01	10	25.56	53.82			0.00	10	25.56	53.82	12	26.44	26.44	55.66
106	4	10.94	0.00	4	5.56	50.86			0.00	4	5.56	50.86	4	11.06	11.06	100
108	38	69.25	0.01	19	25.19	36.37			0.00	19	25.19	36.37	25	29.19	29.19	42.15
117	4	2.69	0.00	2	1.63	60.47			0.00	2	1.63	60.47	4	2.44	2.44	90.70
118	1	1.06	0.00	1	1.06	100.00			0.00	1	1.06	100.00	1	1.06	1.06	100.00
125	69	2549.75	0.27	47	1272.50	49.91			0.00	47	1272.50	49.91	61	1551.50	1551.50	60.85
127	32	279.38	0.03	22	106.06	37.96			0.00	22	106.06	37.96	24	106.06	106.06	37.96
199	1	34.50	0.00			0.00			0.00			0.00				0.00

System Integer	# of patches in 2BD	Total area (ha) in 2BD	% of total area in 2BD	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Stream Systems																
201	19	1372.06	0.15	1	82.13	5.99			0.00	1	82.13	5.99	18	1240.00	1205.63	90.37
202	10	243.19	0.03	2	36.06	14.83			0.00	2	36.06	14.83	3	160.56	155.13	66.02
203	165	10952.44	1.17	25	424.94	3.88			0.00	25	424.94	3.88	57	1640.88	1640.88	14.98
204	4	46.50	0.00			0.00			0.00			0.00				0.00
205	151	10293.06	1.10	7	677.50	6.58			0.00	7	677.50	6.58	39	1826.31	1826.31	17.74
206	93	5123.88	0.55	5	121.44	2.37			0.00	5	121.44	2.37	15	1110.75	1110.75	21.68
207	7	843.13	0.09	1	96.25	11.42			0.00	1	96.25	11.42	4	563.19	563.19	66.80
208	337	18670.13	2.00	15	889.19	4.76			0.00	15	889.19	4.76	29	1838.75	1838.75	9.85
209	198	22024.44	2.36	39	3290.50	14.94			0.00	39	3290.50	14.94	43	3290.38	3290.38	14.94
210	260	15088.19	1.62	12	621.31	4.12			0.00	12	621.31	4.12	18	856.81	856.81	5.68
211	352	26516.56	2.84	18	984.13	3.71	4	1353.88	5.11	22	2338.00	8.82	53	4698.69	4698.69	17.72
212	187	28009.69	3.00	41	4405.69	15.73			0.00	41	4405.69	15.73	47	5173.88	5173.88	18.47
213	1355	185763.56	19.89	119	6430.75	3.46			0.00	119	6430.75	3.46	193	6876.19	6876.19	3.70
214	1053	102527.69	10.98	111	6182.63	6.03			0.00	111	6182.63	6.03	179	8354.56	8341.56	8.15
215	66	4254.75	0.46	9	219.44	5.16			0.00	9	219.44	5.16	18	2455.75	2455.75	57.72
216	70	8586.56	0.92	4	856.94	9.98			0.00	4	856.94	9.98	9	1586.44	1586.44	18.48
217	838	123923.81	13.27	99	5792.19	4.67	16	1.75	0.00	115	5793.94	4.68	160	8169.13	8169.13	6.59
218	248	26978.94	2.89	28	987.88	3.66			0.00	28	987.88	3.66	36	1292.38	1292.38	4.79
219	41	1948.69	0.21	15	21.31	1.09			0.00	15	21.31	1.09	27	1595.69	1595.69	81.89
220	38	10143.94	1.09	21	1339.31	13.20			0.00	21	1339.31	13.20	18	2572.25	2572.25	25.36
221	615	99180.38	10.62	199	13656.63	13.77			0.00	199	13656.63	13.77	248	21169.69	21169.56	21.34
222	2	31.31	0.00			0.00			0.00			0.00				0.00
223	12	1528.13	0.16	6	307.25	20.11			0.00	6	307.25	20.11	8	1304.00	1304.00	85.33
224	6	214.75	0.02	2	0.38	0.17			0.00	2	0.38	0.17	4	214.44	214.44	99.85
225	24	911.06	0.10	5	137.69	15.11			0.00	5	137.69	15.11	27	891.88	876.50	97.89
226	42	8766.38	0.94	4	7.00	0.08			0.00	4	7.00	0.08	10	2395.94	2395.94	27.33
227	99	25164.94	2.69	13	2577.50	10.24			0.00	13	2577.50	10.24	33	7584.56	7584.56	30.14
228	8	152.50	0.02			0.00			0.00			0.00	4	34.88	34.88	22.87
230	8	975.56	0.10	4	50.25	5.15			0.00	4	50.25	5.15	4	906.44	864.81	92.91
231	30	2858.25	0.31			0.00			0.00			0.00	9	1735.56	1729.13	60.72
232	2	126.25	0.01			0.00			0.00			0.00	2	126.25	126.25	100.00
233	19	1466.81	0.16	2	160.19	10.92			0.00	2	160.19	10.92	8	703.38	703.38	47.95
235	8	642.75	0.07	1	92.44	14.38			0.00	1	92.44	14.38	6	497.75	497.75	77.44

System Integer	# of patches in 2BD	Total area (ha) in 2BD	% of total area in 2BD	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Stream Systems continued																
236	1	27.50	0.00			0.00			0.00			0.00				0.00
237	5	1193.31	0.13	6	315.63	26.45			0.00	6	315.63	26.45	4	1148.19	1099.63	96.22
238	3	109.31	0.01			0.00			0.00			0.00	2	109.19	109.19	99.89
241	8	438.38	0.05	5	129.94	29.64			0.00	5	129.94	29.64	4	253.19	221.19	57.76
242	3	44.44	0.00			0.00			0.00			0.00				0.00
243	5	240.81	0.03	1	4.19	1.74			0.00	1	4.19	1.74	3	174.38	154.06	72.41
244	5	697.69	0.07	2	320.25	45.90			0.00	2	320.25	45.90	3	669.38	628.19	95.94
247	14	3469.50	0.37	7	143.88	4.15			0.00	7	143.88	4.15	7	2862.31	2811.63	82.50
248	31	8560.44	0.92	3	28.69	0.34			0.00	3	28.69	0.34	19	6287.13	6254.56	73.44
249	23	6529.19	0.70	12	3217.06	49.27			0.00	12	3217.06	49.27	17	3305.63	3305.63	50.63
250	56	20806.44	2.23	8	1286.69	6.18			0.00	8	1286.69	6.18	16	4130.25	4130.25	19.85
251	5	58.31	0.01	1	12.13	20.79			0.00	1	12.13	20.79	4	58.13	54.63	99.68
252	2	0.38	0.00			0.00			0.00	5	947.50	252666.67				0.00
253	36	4570.38	0.49	5	947.50	20.73			0.00			0.00	7	1149.88	1149.88	25.16
Lake Systems																
306	6	1128.06	0.12			0.00			0.00			0.00	10	1127.63	1127.63	99.96
309	72	21366.38	2.29	23	4896.50	22.92			0.00	23	4896.50	22.92	62	6543.81	6543.81	30.63
315	89	15745.94	1.69	41	3784.56	24.04			0.00	41	3784.56	24.04	88	3784.56	3784.56	24.04
317	3	318.19	0.03			0.00			0.00			0.00	3	317.75	317.75	99.86
325	38	118.31	0.01	2	0.75	0.63			0.00	2	0.75	0.63	8	10.44	10.44	8.82
326	455	3607.13	0.39	29	289.81	8.03	3	24.31	0.67	32	314.13	8.71	48	650.50	650.50	18.03
327	5	40.88	0.00	1	5.50	13.46			0.00	1	5.50	13.46	1	5.50	5.50	13.46
328	82	128.00	0.01	2	3.50	2.73			0.00	2	3.50	2.73	4	5.88	5.88	4.59
329	143	391.31	0.04	12	34.31	8.77			0.00	12	34.31	8.77	24	35.44	35.44	9.06
330	181	2783.00	0.30	26	251.50	9.04			0.00	26	251.50	9.04	51	625.50	625.50	22.48
331	345	1147.94	0.12	15	43.63	3.80			0.00	15	43.63	3.80	15	43.63	43.63	3.80
332	13	14.38	0.00	3	2.56	17.83			0.00	3	2.56	17.83	3	2.56	2.56	17.83
333	4207	33442.44	3.58	310	1844.19	5.51	1	55.06	0.16	311	1899.25	5.68	499	2215.56	2215.56	6.63
334	220	281.25	0.03	31	23.31	8.29			0.00	31	23.31	8.29	32	23.31	23.31	8.29
335	93	487.75	0.05	14	32.25	6.61			0.00	14	32.25	6.61	14	32.25	32.25	6.61
336	2843	6657.56	0.71	236	450.38	6.76	1	0.75	0.01	237	451.13	6.78	268	641.56	641.56	9.64
Wetland Systems																
407	117	357.88	0.04	4	24.81	6.93			0.00	4	24.81	6.93	8	30.44	30.44	8.51

System Integer	# of patches in 2BD	Total area (ha) in 2BD	% of total area in 2BD	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Wetland Systems continued																
408	92	532.69	0.06	3	15.94	2.99			0.00	3	15.94	2.99	9	131.50	131.50	24.69
409	1906	5682.13	0.61	187	632.56	11.13	2	1.81	0.03	189	634.38	11.16	225	640.25	640.25	11.27
410	1317	9174.75	0.98	136	728.06	7.94	5	39.44	0.43	141	767.50	8.37	174	1798.13	1798.13	19.60
Non-Target Ecological Systems																
Coastal Systems																
121	1	3.63	0.00			0.00			0.00			0.00				0.00
Wetland Systems																
411	4957	7435.81	0.80	451	682.44	9.18	2	1.69	0.02	453	684.13	9.20	540	684.13	684.13	9.20
412	6024	23590.25	2.53	345	1084.00	4.60	20	30.00	0.13	365	1114.00	4.72	436	1114.00	1114.00	4.72
Unclassified Ecological Systems																
2	19	566.56	0.06			0.00			0.00			0.00				0.00
5	243	47.38	0.01	1	0.06	0.13			0.00	1	0.06	0.13	1	0.06	0.06	0.13
6	3745	3563.31	0.38	441	633.13	17.77	3	0.25	0.01	444	633.38	17.77	505	633.38	633.38	17.77

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Agawa

Tertiary Watershed 2BE

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area: 572,859 hectares (1,415,534 acres)

Land Ownership: Crown Land ~ 90 %
Private Land ~ 10%

Planning Authority: 66% Algoma District
3% Sudbury District

General Description:

Tertiary watershed 2BE drains into eastern Lake Superior and includes the Montreal River and the Agawa River. There are approximately 9,436 hectares of coastal areas, 508,610 hectares of stream systems, 28,534 hectares of lakes and 22,980 hectares of wetlands. Significant features include the large section of Lake Superior coastline, and a number of islands along the coast including Leach and Montreal Islands. Sparse coniferous forests dominate the eastern portion of the watershed, while the west is comprised primarily of dense deciduous forests. Mixed forest is evenly distributed throughout the watershed. Small amounts of sparse deciduous forest are present as well. A few large open bogs occur toward the eastern boundary of the watershed. A few very small treed bogs are also present in the watershed.

Land Use:

Human development is limited to a few cutovers toward the eastern portion of the watershed. Developed lands are scattered throughout the watershed, including the town of Montreal River.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed



2BE is 144,937 hectares, constituting approximately 25.3% of the watershed's total area. The majority of these lands (144,383 ha) are located in provincially protected areas; primarily Lake Superior Provincial Park. Approximately 2,374 hectares of provincially significant life science ANSIs coincide with provincial parks and 280 hectares coincide with conservation reserves. There are about 8,290 hectares of protected coastal areas, 125,186 hectares of protected stream systems, 6,941 hectares of protected lakes and 2,796 hectares of protected wetlands.

Species and Vegetation Community Targets:

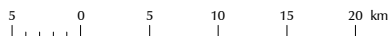
Two species targets occur in watershed 2BE; the primary target Auricled Twayblade (*Listera auriculata*) and the secondary target Bald Eagle (*Haliaeetus leucocephalus*). These species occur in protected areas. There are no documented occurrences of rare vegetation communities in this watershed

Conservation Blueprint:

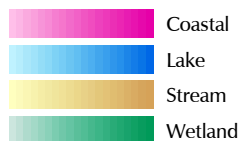
The Conservation Blueprint includes 8,297 hectares of coastal areas, 167,908 hectares of stream systems, 9,049 hectares of lakes and 4,500 hectares of wetlands. The Conservation Blueprint also includes all of the known occurrences of Auricled Twayblade and Bald Eagle.

Great Lakes Conservation Blueprint for Biodiversity

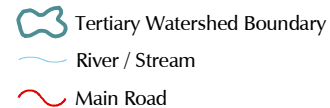
AGAWA WATERSHED 2BE



Aquatic Ecological Systems



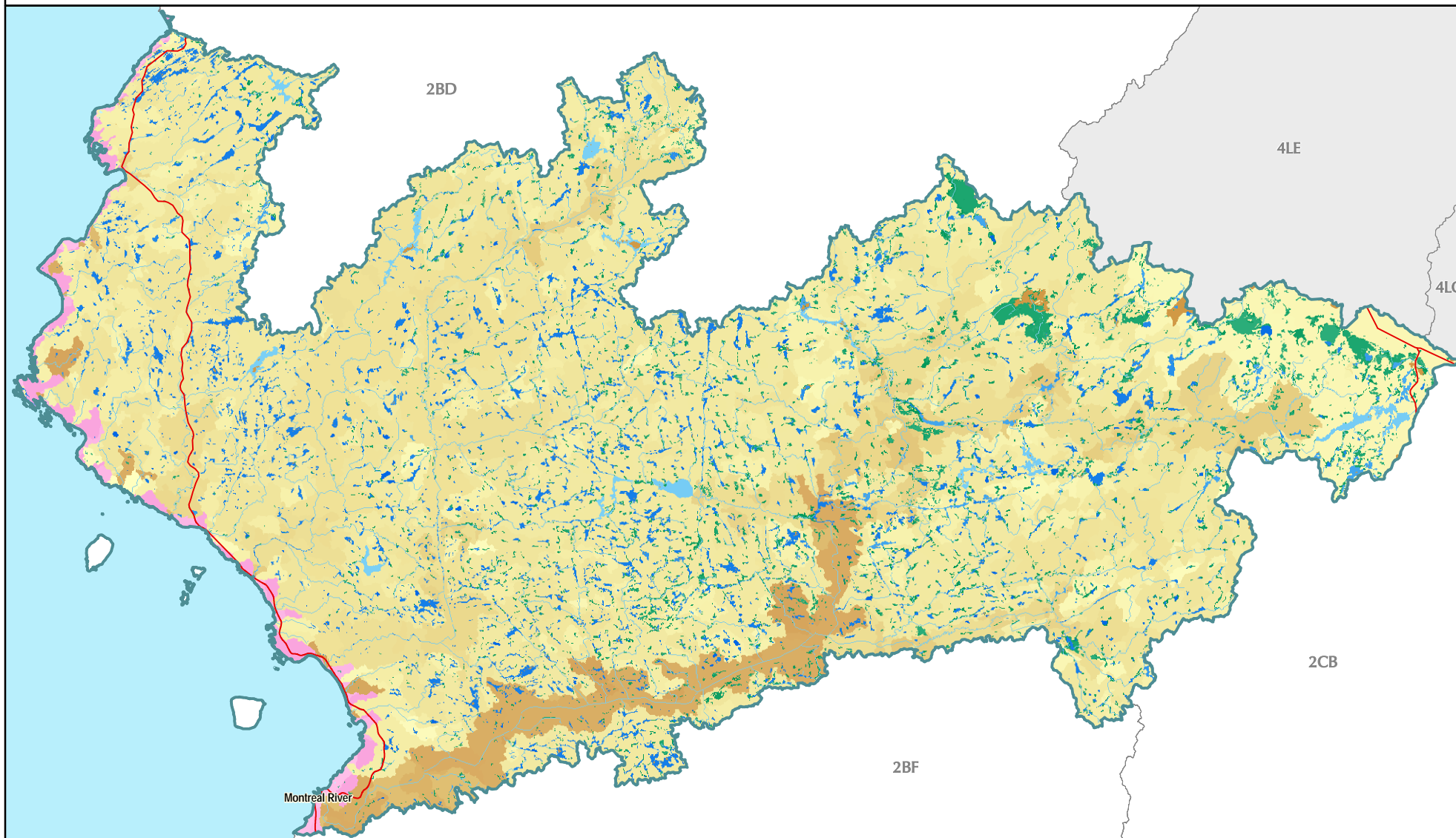
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

AGAWA WATERSHED 2BE

5 0 5 10 15 20 km



Aquatic Conservation Blueprint

-  Parks and Protected Areas
-  Additional Designated Natural Heritage Areas
-  Priority Stewardship Areas - Natural
-  Priority Stewardship Areas - Non-Natural

Other Information

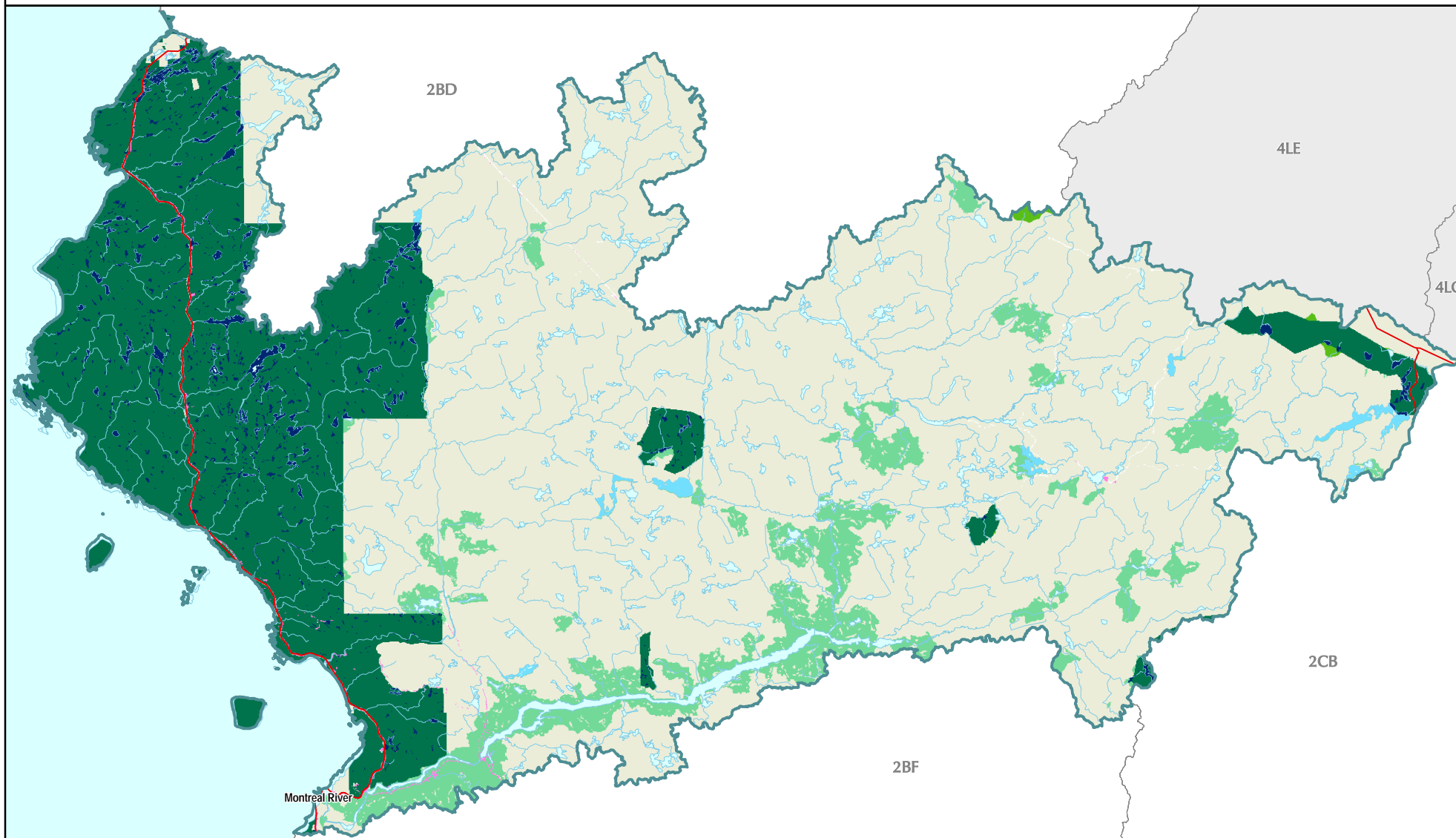
-  Tertiary Watershed Boundary
-  Lake / Water Course
-  Main Road
-  Urban Area
-  Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Documented extant significant species information for tertiary watershed 2BE

Number of pops in 2BE	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in Parks and PAs	% of pops in Parks and PAs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species														
1	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S4B,SZN	NAR	END-R	SAR	1	100	1	100	1	100	secondary
2	<i>Listera auriculata</i>	Auricled Twayblade	G3	S3			GRank	2	100	2	100	2	100	2

Ecological systems summary for tertiary watershed 2BE

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	9436.06	1.65	8290.81	87.86	8297.06	87.93	8297.06	87.93
Stream Systems	508610.00	88.78	125186.94	24.61	167908.50	33.01	167616.56	32.96
Lake Systems	28534.00	4.98	6941.81	24.33	9049.25	31.71	9049.25	31.71
Wetland Systems	22980.19	4.01	2796.81	12.17	4500.25	19.58	4500.25	19.58
Tertiary watershed	572859.88	100.00	144937.63	25.30	191476.31	33.42	191184.38	33.37

Ecological systems details for tertiary watershed 2BE

System Integer	# of patches in 2BE	Total area (ha) in 2BE	% of total area in 2BE	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																
Coastal Systems																
101	17	169.13	0.03	18	154.13	91.13			0.00	18	154.13	91.13	26	154.25	154.25	91.20
102	3	8.38	0.00	3	7.06	84.33			0.00	3	7.06	84.33	4	8.44	8.44	100
104	93	282.50	0.05	87	266.44	94.31			0.00	87	266.44	94.31	117	266.56	266.56	94.36
105	21	92.56	0.02	21	92.06	99.46			0.00	21	92.06	99.46	26	92.06	92.06	99.46
106	4	32.38	0.01	3	18.94	58.49			0.00	3	18.94	58.49	3	19.06	19.06	58.88
107	4	56.13	0.01	6	55.00	98.00			0.00	6	55.00	98.00	4	56.25	56.25	100
108	62	137.69	0.02	56	118.81	86.29			0.00	56	118.81	86.29	66	118.88	118.88	86.34
116	1	1.19	0.00	1	1.19	100.00			0.00	1	1.19	100.00	1	1.19	1.19	100
118	1	1.63	0.00	1	1.63	100.00			0.00	1	1.63	100.00	1	1.63	1.63	100
125	76	5719.94	1.00	90	5359.56	93.70			0.00	90	5359.56	93.70	125	5359.56	5359.56	93.70
127	41	1725.06	0.30	49	1480.69	85.83			0.00	49	1480.69	85.83	59	1483.88	1483.88	86.02

System Integer	# of patches in 2BE	Total area (ha) in 2BE	% of total area in 2BE	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Coastal Systems continued																
199	26	1209.50	0.21	24	735.31	60.79			0.00	24	735.31	60.79	27	735.31	735.31	60.79
Stream Systems																
201	5	681.69	0.12	1	33.88	4.97			0.00	1	33.88	4.97	4	603.44	603.44	88.52
202	18	880.00	0.15	10	841.69	95.65			0.00	10	841.69	95.65	19	842.50	842.50	95.74
203	106	7932.13	1.38	11	1349.56	17.01	5	415.25	5.24	11	1349.56	17.01	28	1591.75	1591.75	20.07
204	5	678.38	0.12			0.00			0.00			0.00	4	639.88	639.88	94.32
205	147	22541.81	3.93	63	2845.38	12.62	36	969.50	4.30	64	2990.81	13.27	91	3621.38	3621.38	16.07
206	28	2180.25	0.38	11	1266.19	58.08			0.00	11	1266.19	58.08	12	1525.88	1525.38	69.99
207	7	694.25	0.12	5	597.13	86.01			0.00	5	597.13	86.01	5	597.13	597.13	86.01
208	164	11406.13	1.99	26	537.38	4.71			0.00	26	537.38	4.71	43	1535.31	1535.31	13.46
209	169	22070.38	3.85	55	6806.75	30.84	1	5.50	0.02	55	6806.75	30.84	86	6813.19	6813.19	30.87
210	68	7466.38	1.30	22	3993.81	53.49			0.00	22	3993.81	53.49	34	4211.56	4211.56	56.41
211	159	10067.00	1.76	1	0.25	0.00	24	3.00	0.03	25	3.25	0.03	54	796.63	796.38	7.91
212	100	21328.88	3.72	47	12144.88	56.94			0.00	47	12144.88	56.94	71	12153.75	12153.75	56.98
213	750	114276.44	19.95	160	21499.56	18.81	7	283.00	0.25	165	21519.13	18.83	249	21518.81	21518.81	18.83
214	390	55743.75	9.73	37	7691.25	13.80	1	0.31	0.00	37	7691.25	13.80	55	8369.94	8366.56	15.02
215	13	339.31	0.06	1	3.63	1.07			0.00	1	3.63	1.07	5	154.75	154.75	45.61
216	21	1576.50	0.28	4	301.88	19.15			0.00	4	301.88	19.15	10	1079.13	1079.13	68.45
217	412	69982.50	12.22	72	24300.06	34.72	1	326.38	0.47	73	24626.44	35.19	104	24739.50	24734.19	35.35
218	156	26346.94	4.60	30	6820.06	25.89			0.00	30	6820.06	25.89	53	6824.31	6822.69	25.90
219	35	29585.44	5.16	12	17283.94	58.42			0.00	12	17283.94	58.42	26	17994.69	17994.69	60.82
220	26	14643.00	2.56	16	6925.75	47.30			0.00	16	6925.75	47.30	25	6956.25	6956.25	47.51
221	134	22692.00	3.96			0.00			0.00			0.00	5	1509.81	1509.81	6.65
222	6	474.44	0.08	3	293.38	61.84			0.00	3	293.38	61.84	8	472.63	472.63	99.62
223	16	5146.31	0.90	9	3372.25	65.53			0.00	9	3372.25	65.53	17	3609.69	3609.38	70.14
224	13	3630.13	0.63	6	590.75	16.27			0.00	6	590.75	16.27	11	1342.88	1342.88	36.99
225	8	1009.56	0.18	5	911.69	90.31			0.00	5	911.69	90.31	4	930.38	929.56	92.16
226	40	5202.75	0.91			0.00	4	2.44	0.05			0.00	9	4215.81	4215.81	81.03
227	68	7610.38	1.33	2	9.69	0.13			0.00	2	9.69	0.13	33	594.25	594.25	7.81
228	11	2220.00	0.39	2	94.94	4.28			0.00	2	94.94	4.28	9	1030.69	1027.56	46.43
230	6	123.38	0.02	3	22.25	18.03			0.00	3	22.25	18.03	7	22.25	22.25	18.03
231	44	6434.13	1.12			0.00			0.00			0.00	12	692.94	692.94	10.77
232	2	67.13	0.01	2	67.13	100.00			0.00	2	67.13	100.00	3	67.13	67.13	100.00

System Integer	# of patches in 2BE	Total area (ha) in 2BE	% of total area in 2BE	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Stream Systems continued																
233	10	847.31	0.15	1	0.75	0.09			0.00	1	0.75	0.09	12	645.50	642.81	76.18
235	16	1947.56	0.34			0.00			0.00			0.00	4	1680.31	1668.75	86.28
236	1	129.88	0.02			0.00			0.00			0.00	1	129.88	129.88	100.00
237	2	3.88	0.00	2	3.00	77.42			0.00	2	3.00	77.42	5	3.00	3.00	77.42
238	1	54.38	0.01			0.00			0.00			0.00	1	54.38	54.38	100.00
239	4	1151.69	0.20			0.00			0.00			0.00	4	1151.38	1137.13	99.97
240	2	1377.88	0.24	1	416.00	30.19			0.00	1	416.00	30.19	2	1377.88	1344.31	100.00
241	3	383.50	0.07	2	0.13	0.03			0.00	2	0.13	0.03	3	383.50	383.50	100.00
242	6	444.50	0.08	2	203.81	45.85			0.00	2	203.81	45.85	3	315.19	315.19	70.91
245	2	41.81	0.01	2	41.81	100.00			0.00	2	41.81	100.00	2	41.81	41.81	100.00
246	1	0.25	0.00	1	0.25	100.00			0.00	1	0.25	100.00	1	0.25	0.25	100.00
247	7	988.88	0.17	5	147.81	14.95			0.00	5	147.81	14.95	8	988.88	950.88	100.00
248	34	12925.13	2.26	4	221.75	1.72			0.00	4	221.75	1.72	29	12606.25	12478.19	97.53
249	11	1278.19	0.22	8	794.88	62.19			0.00	8	794.88	62.19	17	1081.50	1081.50	84.61
250	33	7332.13	1.28	13	497.19	6.78			0.00	13	497.19	6.78	24	6306.25	6260.38	86.01
251	1	379.63	0.07	2	377.50	99.44			0.00	2	377.50	99.44	1	379.63	377.88	100.00
252	1	145.75	0.03	2	138.44	94.98			0.00	2	138.44	94.98	1	145.75	144.88	100.00
253	21	3482.31	0.61	3	848.06	24.35			0.00	3	848.06	24.35	16	3162.88	3162.88	90.83
Lake Systems																
315	30	1941.00	0.34	6	543.94	28.02			0.00	6	543.94	28.02	18	850.13	850.13	43.80
317	30	1652.69	0.29	1	46.06	2.79			0.00	1	46.06	2.79	20	1433.31	1433.31	86.73
325	28	173.50	0.03	9	126.00	72.62			0.00	9	126.00	72.62	15	137.38	137.38	79.18
326	287	1970.31	0.34	43	175.75	8.92			0.00	43	175.75	8.92	73	297.06	297.06	15.08
327	7	9.19	0.00	2	1.31	14.29			0.00	2	1.31	14.29	3	1.31	1.31	14.29
328	39	169.56	0.03	19	102.38	60.38	1	41.06	24.22	19	102.38	60.38	22	103.50	103.50	61.04
329	170	583.00	0.10	66	298.06	51.13			0.00	66	298.06	51.13	94	298.06	298.06	51.13
330	118	961.94	0.17	37	149.44	15.54			0.00	37	149.44	15.54	64	290.00	290.00	30.15
331	210	667.19	0.12	43	125.00	18.74	2	32.31	4.84	43	125.00	18.74	50	125.00	125.00	18.74
332	3	2.44	0.00	2	1.88	76.92			0.00	2	1.88	76.92	2	1.88	1.88	76.92
333	2992	17260.31	3.01	785	4531.75	26.26			0.00	785	4531.75	26.26	1339	4669.75	4669.75	27.05
334	149	233.81	0.04	52	89.69	38.36			0.00	52	89.69	38.36	60	91.31	91.31	39.05
335	43	196.75	0.03	11	106.44	54.10			0.00	11	106.44	54.10	16	106.44	106.44	54.10
336	1197	2701.69	0.47	336	634.88	23.50			0.00	336	634.88	23.50	377	634.88	634.88	23.50

System Integer	# of patches in 2BE	Total area (ha) in 2BE	% of total area in 2BE	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Wetland Systems																
407	15	43.94	0.01	11	31.75	72.26	9	26.88	61.17	11	31.75	72.26	11	31.75	31.75	72.26
408	3	22.31	0.00			0.00			0.00			0.00				0.00
409	1440	4404.69	0.77	212	1122.19	25.48	30	368.94	8.38	213	1136.19	25.79	233	1148.94	1148.94	26.08
410	980	6326.63	1.10	115	863.06	13.64	12	467.63	7.39	117	882.50	13.95	138	2573.00	2573.00	40.67
Non-Target Ecological Systems																
Wetland Systems																
411	2029	3321.63	0.58	142	454.81	13.69	60	232.56	7.00	147	480.56	14.47	192	480.69	480.69	14.47
412	2575	8861.00	1.55	92	265.38	2.99	8	38.06	0.43	93	265.81	3.00	117	265.88	265.88	3.00
Unclassified Ecological Systems																
2	15	664.06	0.12	3	396.13	59.65			0.00	3	396.13	59.65	5	396.13	396.13	59.65
3	7	10.63	0.00	4	9.25	87.06			0.00	4	9.25	87.06	8	9.25	9.25	87.06
5	225	1625.00	0.28	202	1502.31	92.45			0.00	202	1502.31	92.45	219	1502.25	1502.25	92.45
6	1771	1674.63	0.29	372	218.75	13.06	2	0.38	0.02	373	218.94	13.07	448	219.00	219.00	13.08

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and **Additional Designated Natural Heritage Areas** which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Goulais

Tertiary Watershed 2BF

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area: 509,408 hectares (1,258,747 acres)

Land Ownership: Crown Land ~ 74 %
Private Land ~ 25%
First Nations Lands ~1 %

Planning Authority: 94% Algoma District
6% Sudbury District

General Description:

Tertiary watershed 2BF drains into the eastern Lake Superior. There are approximately 21,545 hectares of coastal areas, 439,976 hectares of stream systems, 23,146 hectares of lakes and 21,591 hectares of wetlands. The coastline has a number of bays, Batchawana Bay being the largest. Many islands are scattered within these bays. The western half of watershed 2BF is predominantly covered with dense deciduous forest. The eastern half consists of mixed forest, sparse coniferous and deciduous forest, and a small amount of dense coniferous forest. Open and treed bogs are scattered throughout. A large patch of treed bog is present outside of the Goulais River settlement.

Land Use:

The majority of anthropogenic land cover consists of developed land around Sault Ste. Marie. The watershed also contains the coastline communities of Batchawana Bay, Goulais River, Gros Cap and Pointe Aux Pins along its significant stretch of Lake Superior coast. Searchmont, is another community further inland. Forestry is less frequent in this watershed compared to those in the more northern portions of the Lake Superior basin.



Protection and Conservation:

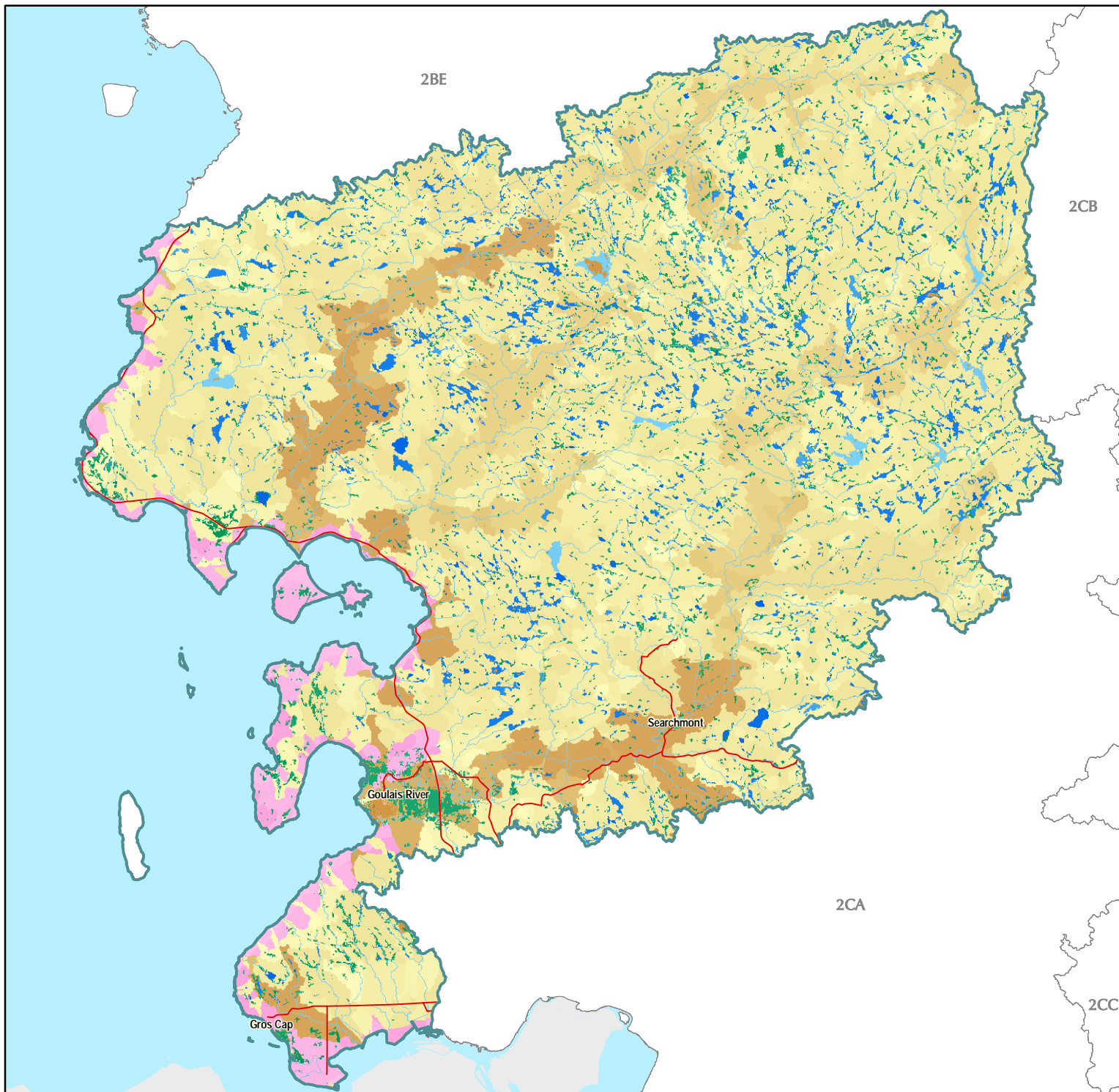
The combined area of protected and conservation lands in tertiary watershed 2BF is 43,464 hectares, constituting approximately 8.5% of the watershed's total area. The majority of these lands (42,530 ha) are located in provincially protected areas. There are approximately 1,173 hectares of protected coastal areas, 35,691 hectares of protected stream systems, 2,378 hectares of protected lakes and 2,393 hectares of protected wetlands.

Species and Vegetation Community Targets:

Three species targets occur in watershed 2BF; the primary target Wiegand's Sedge (*Carex wiegandii*) and secondary targets Wood Turtle (*Glyptemys insculpta*) and Bald Eagle (*Haliaeetus leucocephalus*). There are occurrences of Wood Turtle and Bald Eagle within protected areas. There are no documented occurrences of rare vegetation communities in this watershed.

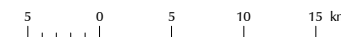
Conservation Blueprint:

The Conservation Blueprint includes 3,266 hectares of coastal areas, 109,171 hectares of stream systems, 4,336 hectares of lakes and 3,057 hectares of wetlands. The Conservation Blueprint also includes the known occurrence of Wiegand's Sedge, two occurrences of Wood Turtle and three occurrences of Bald Eagle.

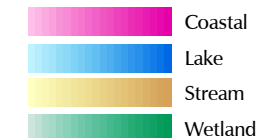


Great Lakes Conservation Blueprint for Biodiversity

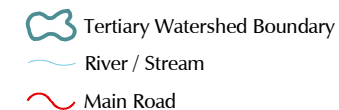
GOULAIS WATERSHED 2BF



Aquatic Ecological Systems



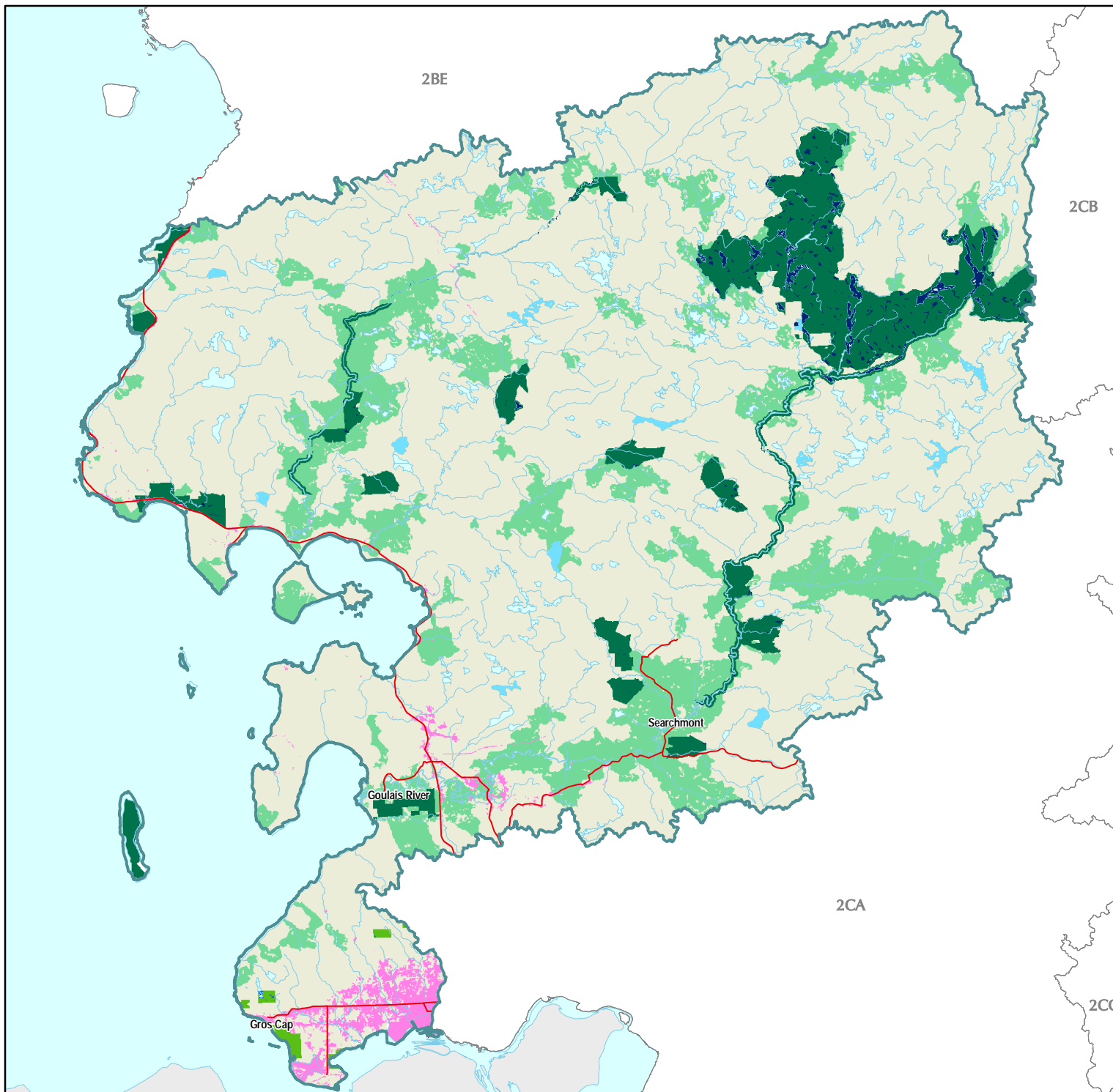
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

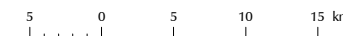
For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

GOULAIS WATERSHED 2BF



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Documented extant significant species information for tertiary watershed 2BF

Number of pops in 2BF	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in Parks and PAs	% of pops in Parks and PAs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species														
6	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S4B,SZN	NAR	END-R	SAR	0	0	0	0	3	50	secondary
4	<i>Glyptemys insculpta</i>	Wood Turtle	G4	S2	SC	END	SAR	1	25	1	25	2	50	secondary
1	<i>Carex wiegandii</i>	Wiegand's Sedge	G3	S1			Grank	0	0	0	0	1	100	2

Ecological systems summary for tertiary watershed 2BF

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	21545.81	4.23	1173.19	5.45	3266.25	15.16	3242.94	15.05
Stream Systems	439976.63	86.37	35691.44	8.11	109171.81	24.81	108874.88	24.75
Lake Systems	23146.44	4.54	2378.81	10.28	4336.69	18.74	4336.69	18.74
Wetland Systems	21591.44	4.24	2393.56	11.09	3057.06	14.16	3057.06	14.16
Tertiary watershed	509408.88	100.00	43464.88	8.53	121659.69	23.88	121339.44	23.82

Ecological systems details for tertiary watershed 2BF

System Integer	# of patches in 2BF	Total area (ha) in 2BF	% of total area in 2BF	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in CA lands	Total area (ha) in CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																
Coastal Systems																
101	14	47.63	0.01	4	3.88	8.14			0.00	4	3.88	8.14	11	13.56	13.56	28.48
104	45	111.63	0.02	5	19.75	17.69	2	2.56	2.30	7	22.31	19.99	12	22.88	22.88	20.49
105	63	481.00	0.09	10	30.75	6.39	1	1.19	0.25	11	31.94	6.64	24	39.25	39.25	8.16
106	2	8.13	0.00			0.00			0.00			0.00	2	8.13	8.13	100.00
107	5	49.69	0.01	4	12.69	25.53			0.00	4	12.69	25.53	6	49.69	49.69	100.00
108	90	351.31	0.07	2	2.56	0.73	3	14.69	4.18	5	17.25	4.91	12	20.31	20.31	5.78
109	2	1.88	0.00			0.00			0.00			0.00	2	1.88	1.88	100.00
112	1	2.06	0.00			0.00			0.00			0.00	2	2.06	2.06	100.00
113	21	41.63	0.01			0.00			0.00			0.00	4	5.19	5.19	12.46

System Integer	# of patches in 2BF	Total area (ha) in 2BF	% of total area in 2BF	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in CA lands	Total area (ha) in CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Coastal Systems continued																
114	1	5.94	0.00			0.00			0.00			0.00	1	5.94	5.94	100.00
116	27	83.75	0.02	1	0.13	0.15			0.00	1	0.13	0.15	5	8.69	8.69	10.37
117	1	2.56	0.00			0.00			0.00			0.00	1	2.56	2.56	100.00
120	3	2.56	0.00			0.00			0.00			0.00	4	2.13	2.13	82.93
121	4	10.75	0.00			0.00			0.00			0.00				0.00
124	14	46.06	0.01			0.00			0.00			0.00				0.00
125	92	5153.56	1.01	10	344.75	6.69	4	118.00	2.29	14	462.75	8.98	18	959.38	958.81	18.62
127	156	10730.63	2.11	35	149.94	1.40	11	251.69	2.35	46	401.63	3.74	70	1904.00	1881.25	17.74
199	61	4415.06	0.87	5	220.63	5.00			0.00	5	220.63	5.00	10	220.63	220.63	5.00
Stream Systems																
201	15	1132.31	0.22	1	17.75	1.57			0.00	1	17.75	1.57	4	561.19	561.19	49.56
202	38	4962.81	0.97	2	187.25	3.77			0.00	2	187.25	3.77	7	1999.13	1986.94	40.28
203	98	6749.56	1.32	18	601.69	8.91	2	0.81	0.01	20	602.50	8.93	28	1112.81	1112.81	16.49
204	21	3118.50	0.61	5	272.00	8.72			0.00	5	272.00	8.72	6	2332.19	2332.19	74.79
205	62	2143.75	0.42	20	305.50	14.25	3	9.44	0.44	23	314.94	14.69	28	724.00	724.00	33.77
206	79	9982.06	1.96	7	1149.56	11.52			0.00	7	1149.56	11.52	11	1556.13	1556.13	15.59
207	38	5546.00	1.09	7	52.69	0.95			0.00	7	52.69	0.95	6	2019.50	2019.50	36.41
208	105	11901.50	2.34	27	1035.00	8.70			0.00	27	1035.00	8.70	45	1565.56	1565.56	13.15
209	236	26414.38	5.19	25	1767.56	6.69	3	19.50	0.07	28	1787.06	6.77	39	1787.06	1787.06	6.77
210	117	19808.38	3.89	9	928.31	4.69			0.00	9	928.31	4.69	17	2065.94	2065.94	10.43
211	63	3402.94	0.67	17	1171.38	34.42			0.00	17	1171.38	34.42	35	1639.88	1639.88	48.19
212	197	33538.63	6.58	17	828.25	2.47	2	17.31	0.05	19	845.56	2.52	28	1177.56	1177.56	3.51
213	687	88885.63	17.45	98	8345.25	9.39			0.00	98	8345.25	9.39	132	8687.44	8687.44	9.77
214	328	35126.81	6.90	48	3675.50	10.46			0.00	48	3675.50	10.46	93	4725.44	4725.44	13.45
215	16	994.50	0.20	1	68.63	6.90			0.00	1	68.63	6.90	7	776.75	776.75	78.10
216	14	2299.50	0.45			0.00			0.00			0.00	4	1716.00	1716.00	74.62
217	329	65195.81	12.80	34	3328.00	5.10	5	101.75	0.16	39	3429.75	5.26	48	3668.88	3668.88	5.63
218	67	8406.63	1.65	12	377.50	4.49			0.00	12	377.50	4.49	17	1649.25	1649.25	19.62
219	2	599.75	0.12	2	93.63	15.61			0.00	2	93.63	15.61	2	599.75	599.75	100.00
220	32	13421.75	2.63	5	288.06	2.15			0.00	5	288.06	2.15	12	9477.63	9477.63	70.61
221	132	16918.94	3.32	33	2877.38	17.01			0.00	33	2877.38	17.01	69	8383.69	8383.69	49.55
222	2	384.88	0.08	1	5.75	1.49			0.00	1	5.75	1.49	2	384.88	384.88	100.00
223	15	2958.00	0.58	8	38.00	1.28			0.00	8	38.00	1.28	12	1034.88	1034.88	34.99
224	1	14.00	0.00	1	13.50	96.43			0.00	1	13.50	96.43	2	13.50	13.50	96.43

System Integer	# of patches in 2BF	Total area (ha) in 2BF	% of total area in 2BF	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in CA lands	Total area (ha) in CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Stream Systems continued																
225	2	57.69	0.01	2	4.75	8.23			0.00	2	4.75	8.23	2	57.69	57.69	100.00
226	10	3031.69	0.60	8	386.94	12.76			0.00	8	386.94	12.76	11	3021.94	3021.94	99.68
227	86	24013.19	4.71	44	4130.50	17.20			0.00	44	4130.50	17.20	82	7838.00	7838.00	32.64
228	43	2780.56	0.55	1	35.00	1.26			0.00	1	35.00	1.26	9	2317.56	2317.56	83.35
229	1	54.94	0.01			0.00			0.00			0.00	1	54.94	54.94	100.00
230	4	68.19	0.01	1	7.69	11.27			0.00	1	7.69	11.27	3	67.81	67.81	99.45
231	19	736.31	0.14	3	108.75	14.77			0.00	3	108.75	14.77	20	498.63	498.63	67.72
233	7	2273.88	0.45	3	593.75	26.11			0.00	3	593.75	26.11	3	1887.63	1887.63	83.01
235	20	2217.50	0.44	5	225.25	10.16			0.00	5	225.25	10.16	15	1230.63	1230.63	55.50
237	1	119.06	0.02	1	1.44	1.21			0.00	1	1.44	1.21	1	119.06	118.06	100.00
238	2	173.56	0.03	1	25.63	14.76			0.00	1	25.63	14.76	2	173.56	159.06	100.00
239	25	1218.94	0.24	1	4.69	0.38			0.00	1	4.69	0.38	34	972.25	948.94	79.76
240	21	109.63	0.02			0.00			0.00			0.00	25	109.63	109.63	100.00
241	6	1321.06	0.26			0.00			0.00			0.00	4	1312.31	1298.31	99.34
242	9	2885.81	0.57	12	27.25	0.94			0.00	12	27.25	0.94	8	2885.44	2881.25	99.99
243	15	674.44	0.13	1	58.81	8.72			0.00	1	58.81	8.72	13	490.44	480.81	72.72
244	1	127.06	0.02	1	41.38	32.56			0.00	1	41.38	32.56	1	127.06	127.06	100.00
246	57	4060.13	0.80	44	233.44	5.75			0.00	44	233.44	5.75	47	3861.56	3710.06	95.11
247	8	0.75	0.00			0.00			0.00			0.00	11	0.75	0.75	100.00
248	28	299.19	0.06	2	16.94	5.66			0.00	2	16.94	5.66	32	269.00	269.00	89.91
249	6	717.69	0.14	1	13.19	1.84			0.00	1	13.19	1.84	3	501.69	501.00	69.90
250	38	4151.44	0.81	19	357.94	8.62			0.00	19	357.94	8.62	72	1342.69	1342.69	32.34
251	20	2453.88	0.48	2	4.31	0.18			0.00	2	4.31	0.18	8	1802.06	1802.06	73.44
252	1	244.06	0.05			0.00			0.00			0.00	2	244.06	244.06	100.00
253	18	10515.38	2.06	4	1323.50	12.59			0.00	4	1323.50	12.59	16	9429.63	9389.13	89.67
254	35	11760.69	2.31	10	388.50	3.30	6	124.13	1.06	16	512.63	4.36	27	8896.06	8870.63	75.64
Lake Systems																
315	14	1830.38	0.36	8	240.06	13.12			0.00	8	240.06	13.12	31	666.88	666.88	36.43
317	5	435.69	0.09			0.00			0.00			0.00	2	435.50	435.50	99.96
325	67	121.38	0.02	7	24.44	20.13			0.00	7	24.44	20.13	12	28.31	28.31	23.33
326	319	1406.94	0.28	33	317.88	22.59			0.00	33	317.88	22.59	54	420.81	420.81	29.91
327	4	6.75	0.00			0.00			0.00			0.00				0.00
328	29	21.44	0.00			0.00			0.00			0.00				0.00
329	193	498.13	0.10	18	25.75	5.17			0.00	18	25.75	5.17	38	26.13	26.13	5.24

System Integer	# of patches in 2BF	Total area (ha) in 2BF	% of total area in 2BF	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in CA lands	Total area (ha) in CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Lake Systems continued																
330	53	904.06	0.18	7	163.25	18.06			0.00	7	163.25	18.06	12	330.94	330.94	36.61
331	187	542.00	0.11	9	27.88	5.14			0.00	9	27.88	5.14	14	140.38	140.38	25.90
333	2459	13875.69	2.72	317	1399.81	10.09	11	16.94	0.12	328	1416.75	10.21	650	1656.31	1656.31	11.94
334	147	232.00	0.05	9	10.38	4.47			0.00	9	10.38	4.47	15	12.88	12.88	5.55
335	27	326.69	0.06	2	5.81	1.78			0.00	2	5.81	1.78	4	203.13	203.13	62.18
336	1273	2942.75	0.58	84	144.81	4.92	1	1.81	0.06	85	146.63	4.98	99	415.44	415.44	14.12
Wetland Systems																
407	3	7.63	0.00			0.00			0.00			0.00				0.00
408	7	37.50	0.01			0.00			0.00			0.00				0.00
409	1003	2471.56	0.49	90	200.19	8.10	17	32.25	1.30	107	232.44	9.40	126	236.94	236.94	9.59
410	1027	4709.56	0.92	118	636.13	13.51	1	22.19	0.47	119	658.31	13.98	145	1317.31	1317.31	27.97
Non-Target Ecological Systems																
Wetland Systems																
411	1857	3175.38	0.62	162	218.94	6.89	22	81.13	2.55	184	300.06	9.45	213	300.06	300.06	9.45
412	3172	11189.81	2.20	390	1125.38	10.06	14	77.38	0.69	404	1202.75	10.75	491	1202.75	1202.75	10.75
Unclassified Ecological Systems																
2	6	2.94	0.00	2	0.75	25.53			0.00	2	0.75	25.53	7	0.75	0.75	25.53
3	6	2.56	0.00			0.00			0.00			0.00				0.00
5	180	1559.81	0.31	8	1390.50	89.15	1	0.06	0.00	9	1390.56	89.15	9	1390.56	1390.56	89.15
6	1898	1588.75	0.31	205	395.50	24.89	19	41.81	2.63	224	437.31	27.53	280	437.31	437.31	27.53

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and **Additional Designated Natural Heritage Areas** which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Garden

Tertiary Watershed 2CA

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area: 348,567 hectares (861,309 acres)

Land Ownership: Crown Land ~ 40%
Private Land ~ 50%
First Nations Lands ~ 10%

Planning Authority: 100% Algoma District

General Description:

Tertiary watershed 2CA drains into northern Lake Huron. There are approximately 21,807 hectares of coastal areas, 291,062 hectares of stream systems, 19,623 hectares of lakes and 13,795 hectares of wetlands. The watershed's coastline lies along the North Channel of Lake Huron and includes St. Joseph Island. Many American islands, such as Sugar Island, lie just offshore of the watershed boundary. The Garden River is also located in the watershed. Dominant land cover consists of dense and sparse deciduous forests. Some mixed forests and smaller amounts of coniferous forests are also present. There are few wetlands in the area, the majority of which are open and treed bogs.

Land Use:

Watershed 2CA includes the city of Sault Ste. Marie with human-modified lands consisting mainly of developed areas in and around this city. Some pasture and abandoned fields occur along the southeast shoreline of the watershed and on St. Joseph Island. A few small cutover patches are also scattered throughout the watershed.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2CA is 16,804 hectares, constituting approximately 4.82% of the



watershed's total area. The majority of these lands (15,352 ha) are located in provincially protected areas. There are approximately 285 hectares of protected coastal areas, 13,395 hectares of protected stream systems, 1,527 hectares of protected lakes and 1,238 hectares of protected wetlands.

Species and Vegetation Community Targets:

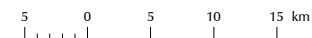
Two species targets have known occurrences in watershed 2CA; Black Tern (*Chlidonias niger*) and Bald Eagle (*Haliaeetus leucocephalus*), both of which are secondary targets. There are no known occurrences of either species in protected areas. There is one high-quality example of a vegetation community documented in this watershed: Tamarack Coniferous Organic Swamp. This vegetation community does not occur within a protected area.

Conservation Blueprint:

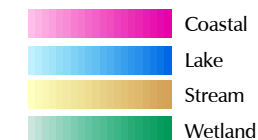
The Conservation Blueprint includes 2,050 hectares of coastal areas, 73,909 hectares of stream systems, 8,342 hectares of lakes and 1,358 hectares of wetlands. The Conservation Blueprint also includes one known occurrence of Bald Eagle, but it does not include occurrences for the remaining secondary targets (Black Tern and Tamarack Coniferous Organic Swamp).

Great Lakes Conservation Blueprint for Biodiversity

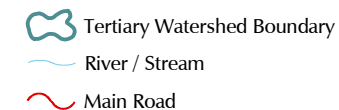
GARDEN WATERSHED 2CA



Aquatic Ecological Systems



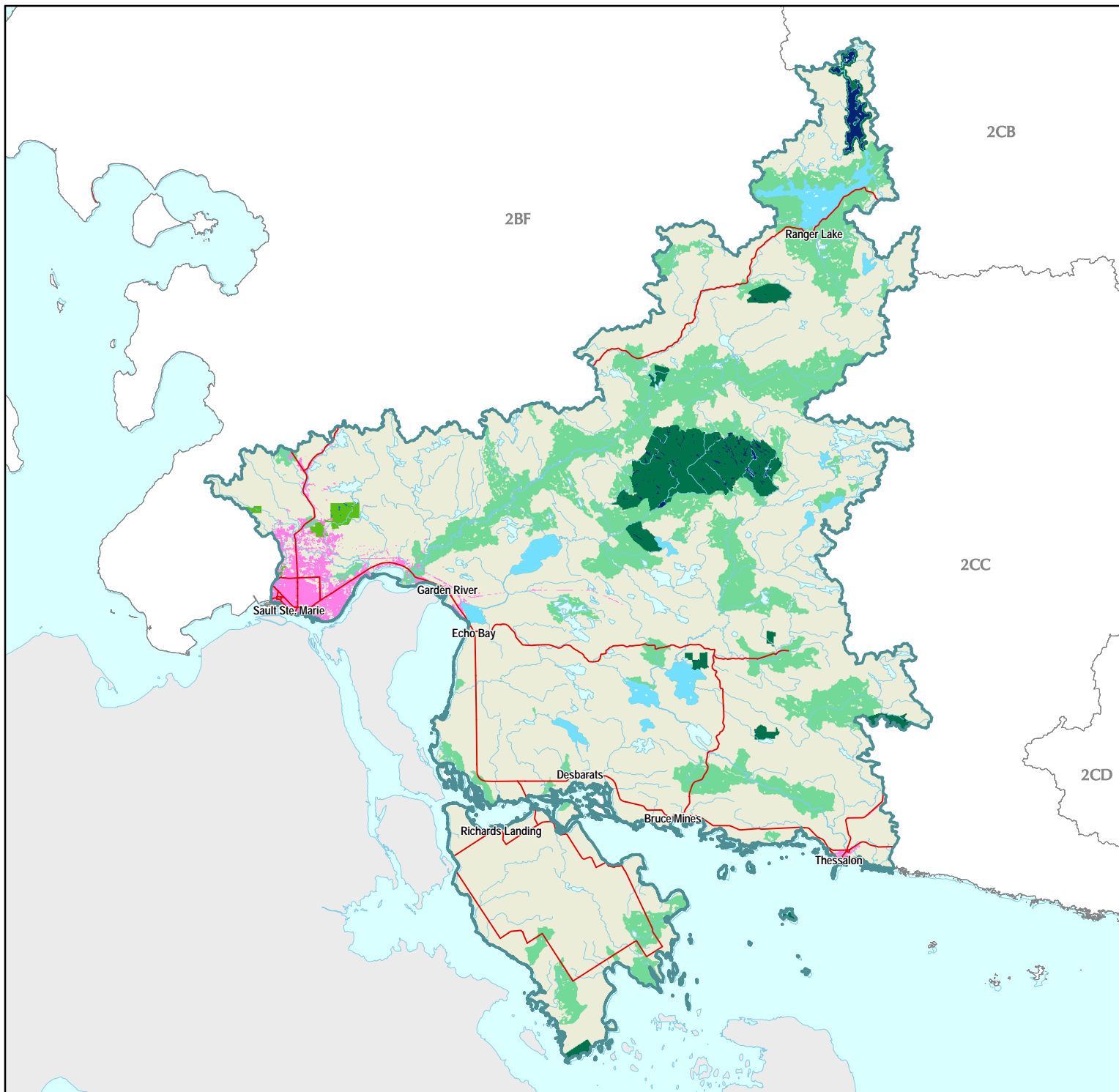
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

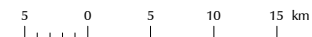
For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

GARDEN WATERSHED 2CA



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Documented extant vegetation communities and significant species information for tertiary watershed 2CA

Number of pops in 2CA	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species												
4	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S4B,SZN	NAR	END-R	SAR	0	0	1	25	secondary
3	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	0	0	0	secondary
Communities												
1	Tamarack Coniferous Organic Swamp Type		G4	S5			high quality	0	0	0	0	secondary

Ecological systems summary for tertiary watershed 2CA

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	21807.69	6.26	285.94	1.31	2050.44	9.40	2044.19	9.37
Stream Systems	291062.63	83.50	13395.06	4.60	73909.25	25.39	73700.25	25.32
Lake Systems	19623.63	5.63	1527.19	7.78	8342.31	42.51	8342.31	42.51
Wetland Systems	13795.44	3.96	1238.88	8.98	1358.25	9.85	1358.25	9.85
Tertiary watershed	348567.44	100.00	16804.38	4.82	86017.56	24.68	85802.31	24.62

Ecological systems details for tertiary watershed 2CA

System Integer	# of patches in 2CA	Total area (ha) in 2CA	% of total area in 2CA	# of patches in federal lands	Total area (ha) in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	# of patches in CA lands	Total area (ha) in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																
Coastal Systems																
101	5	24.5	0.01									0.00	7	24.3125	24.3125	99.23
104	55	93.9375	0.03									0.00	5	4.125	4.125	4.39
105	19	87.25	0.03									0.00	3	13.375	13.375	15.33
106	6	31.5	0.01									0.00	8	29	29	92.06
108	180	662.375	0.19	5	9.8125					5	9.8125	1.48	10	19.5	19.5	2.94
113	120	156.3125	0.04	1	3.625					1	3.625	2.32	4	5.375	5.375	3.44
114	8	3.375	0.00									0.00	2	2.75	2.75	81.48
115	30	18.125	0.01									0.00	3	2.4375	2.4375	13.45
116	145	196.5625	0.06	16	10.375					16	10.375	5.28	21	13.5625	13.5625	6.90

System Integer	# of patches in 2CA	Total area (ha) in 2CA	% of total area in 2CA	# of patches in federal lands	Total area (ha) in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	# of patches in CA lands	Total area (ha) in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Coastal Systems continued																
117	3	2.25	0.00									0.00	4	2.3125	2.3125	100
125	105	5331.875	1.53									0.00	5	570.375	570.375	10.70
126	48	1596.1875	0.46									0.00	5	357.5	357.5	22.40
127	123	9015.6875	2.59	6	255.1875					6	255.1875	2.83	15	998.875	992.625	11.08
199	59	4477.875	1.28	3	6.9375					3	6.9375	0.15	4	6.9375	6.9375	0.15
Stream Systems																
201	14	357.75	0.10									0.00	3	137.875	137.875	38.54
202	11	1054.5625	0.30									0.00	5	890.0625	860.875	84.40
203	36	5934.5625	1.70			5	7.875			5	7.875	0.13	10	541	541	9.12
204	7	204.75	0.06									0.00	4	204.375	204.375	99.82
205	32	2231.125	0.64									0.00	8	2065.625	2065.625	92.58
206	62	17751.375	5.09	1	32.875			3	4.4375	4	37.3125	0.21	7	1417.563	1417.5625	7.99
207	9	629.5625	0.18									0.00	6	473.3125	473.3125	75.18
208	56	6232.25	1.79			1	3.375	5	99.0625	6	102.4375	1.64	11	640.6875	640.6875	10.28
209	106	11467.3125	3.29			1	211.125	2	12.6875	3	223.8125	1.95	9	1250.25	1250.25	10.90
210	52	10871.6875	3.12			5	356.5625	5	46.3125	10	402.875	3.71	17	1781.875	1781.875	16.39
211	29	4624.4375	1.33			1	89.125			1	89.125	1.93	10	2836.438	2836.4375	61.34
212	79	13255.8125	3.80			9	656.875			9	656.875	4.96	10	993.1875	993.1875	7.49
213	444	52893.875	15.17			61	2256.625	8	517.8125	69	2774.438	5.25	108	3774.5	3774.5	7.14
214	223	26033.4375	7.47			29	884.4375	3	20.8125	32	905.25	3.48	60	1681.563	1681.5625	6.46
215	31	1893.4375	0.54									0.00	11	1593.375	1556.8125	84.15
216	13	2934.4375	0.84									0.00	6	2608.063	2608.0625	88.88
217	320	45521.9375	13.06			29	5035	9	111.625	38	5146.625	11.31	58	8685.313	8685.3125	19.08
218	59	17860.125	5.12			13	994.1875	4	19.625	17	1013.813	5.68	31	1120.438	1120.4375	6.27
219	24	11472.625	3.29			5	306.375			5	306.375	2.67	14	8495.188	8407.8125	74.05
220	24	5700.25	1.64			17	1111.5			17	1111.5	19.50	14	4997.25	4997.25	87.67
221	62	22347	6.41			4	205			4	205	0.92	15	7209.688	7209.6875	32.26
222	9	2654.9375	0.76									0.00	3	2474.25	2474.25	93.19
223	3	450.5	0.13									0.00	2	450.375	450.375	99.97
224	2	114.75	0.03									0.00	2	114.75	114.75	100.00
225	8	4133.9375	1.19			3	25.375	1	117.8125	4	143.1875	3.46	6	1080.188	1080.1875	26.13
226	32	11669.1875	3.35			6	237.8125			6	237.8125	2.04	6	8441.313	8441.3125	72.34
227	14	4995.125	1.43			1	6.4375			1	6.4375	0.13	8	4677	4677	93.63
228	6	1017.1875	0.29									0.00	6	1017	1017	99.98
229	2	62.875	0.02									0.00	2	62.875	62.875	100.00
230	8	1833.125	0.53			1	21.4375			1	21.4375	1.17	3	887	887	48.39
231	2	166.4375	0.05									0.00	2	166.4375	166.4375	100.00

System Integer	# of patches in 2CA	Total area (ha) in 2CA	% of total area in 2CA	# of patches in federal lands	Total area (ha) in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	# of patches in CA lands	Total area (ha) in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Stream Systems continued																
233	1	129.8125	0.04									0.00	1	129.8125	129.8125	100.00
234	1	51.25	0.01									0.00	1	51.25	51.25	100.00
235	3	608.44	0.17					2	2.88	2	2.88	0.47	4	608.44	552.56	100.00
236	1	59.25	0.02									0.00	1	59.25	59.25	100.00
242	21	2.63	0.00									0.00	33	2.63	2.63	100.00
247	35	103.75	0.03									0.00	44	5.25	5.25	5.06
250	103	408.31	0.12									0.00	57	15.56	15.56	3.81
253	11	97.63	0.03									0.00	13	97.69	97.69	100.00
254	3	170.69	0.05									0.00	1	170.56	170.56	99.93
Lake Systems																
306	1	1046.75	0.30									0.00	6	1046.75	1046.75	100.00
309	7	3470.56	1.00			1	0.06			1	0.06	0.00	12	3470.06	3470.06	99.99
315	18	4087.00	1.17			1	841.69			1	841.69	20.59	9	1573.88	1573.88	38.51
317	3	612.50	0.18									0.00	2	612.25	612.25	99.96
325	24	13.75	0.00									0.00				0.00
326	184	414.06	0.12			5	15.81			5	15.81	3.82	21	19.56	19.56	4.72
327	5	0.81	0.00									0.00				0.00
328	21	20.56	0.01									0.00				0.00
329	51	147.19	0.04									0.00	5	7.06	7.06	4.80
330	65	652.19	0.19									0.00	6	362.69	362.69	55.61
331	115	169.38	0.05			5	5.75			5	5.75	3.39	8	8.25	8.25	4.87
332	4	2.06	0.00									0.00				0.00
333	1192	6979.56	2.00			120	499.38	13	16.19	133	515.56	7.39	229	963.38	963.38	13.80
334	49	98.38	0.03			2	1.56			2	1.56	1.59	4	3.13	3.13	3.18
335	39	167.75	0.05			3	75.19			3	75.19	44.82	6	77.88	77.88	46.42
336	717	1737.88	0.50			62	68.94	5	2.63	67	71.56	4.12	77	197.44	197.44	11.36
Wetland Systems																
407	12	51.75	0.01									0.00	6	35.19	35.19	68.00
408	4	27.50	0.01									0.00				0.00
409	561	1574.44	0.45	1	5.63	30	118.25	4	7.69	35	131.56	8.36	45	142.06	142.06	9.02
410	416	1879.13	0.54			41	185.06	9	36.13	50	221.19	11.77	61	294.88	294.88	15.69
Non-Target Ecological Systems																
Coastal Systems																
121	4	21.75	0.01									0.00				0.00
124	54	88.125	0.03									0.00				0.00

System Integer	# of patches in 2CA	Total area (ha) in 2CA	% of total area in 2CA	# of patches in federal lands	Total area (ha) in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	# of patches in CA lands	Total area (ha) in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Non-Target Ecological Systems continued																
Wetland Systems																
411	1112	2230.31	0.64	4	6.13	107	196.19	2	1.88	113	204.19	9.16	137	204.19	204.19	9.16
412	1772	8032.31	2.30			155	581.88	18	100.06	173	681.94	8.49	208	681.94	681.94	8.49
Unclassified Ecological Systems																
2	36	1060.5	0.30									0.00				0.00
3	2	3.25	0.00									0.00				0.00
5	611	1546.8125	0.44	3	3.25	11	302.0625	2	0.3125	16	305.625	19.76	20	305.625	305.625	19.76
6	909	731.25	0.21			58	51.4375	4	0.25	62	51.6875	7.07	65	51.6875	51.6875	7.07

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Wenebagon

Tertiary Watershed 2CB

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area: 577,444 hectares (1,426,864 acres)

Land Ownership: Crown Land ~ 90 %
Private Land ~ 10%

Planning Authority: 60% Algoma District
40% Sudbury District

General Description:

Tertiary watershed 2CB does not border any of the Great Lakes, but drains into Lake Huron and includes the Wenebagon River. There are approximately 494,659 hectares of stream systems, 51,564 hectares of lakes and 26,908 hectares of wetlands in the watershed. The dominant land cover is mixed forest, followed by dense and sparse coniferous forests. A few coniferous plantations are present, as are small pockets of deciduous forest. The few wetlands in the region are open and treed bogs.

Land Use:

Forestry is the primary land use in this largely undeveloped region. There are no significant developed lands or settlements in the watershed.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2CB is 95,958 hectares, constituting approximately 16.62% of the watershed's total area. The majority of these lands (93,828 ha) are located



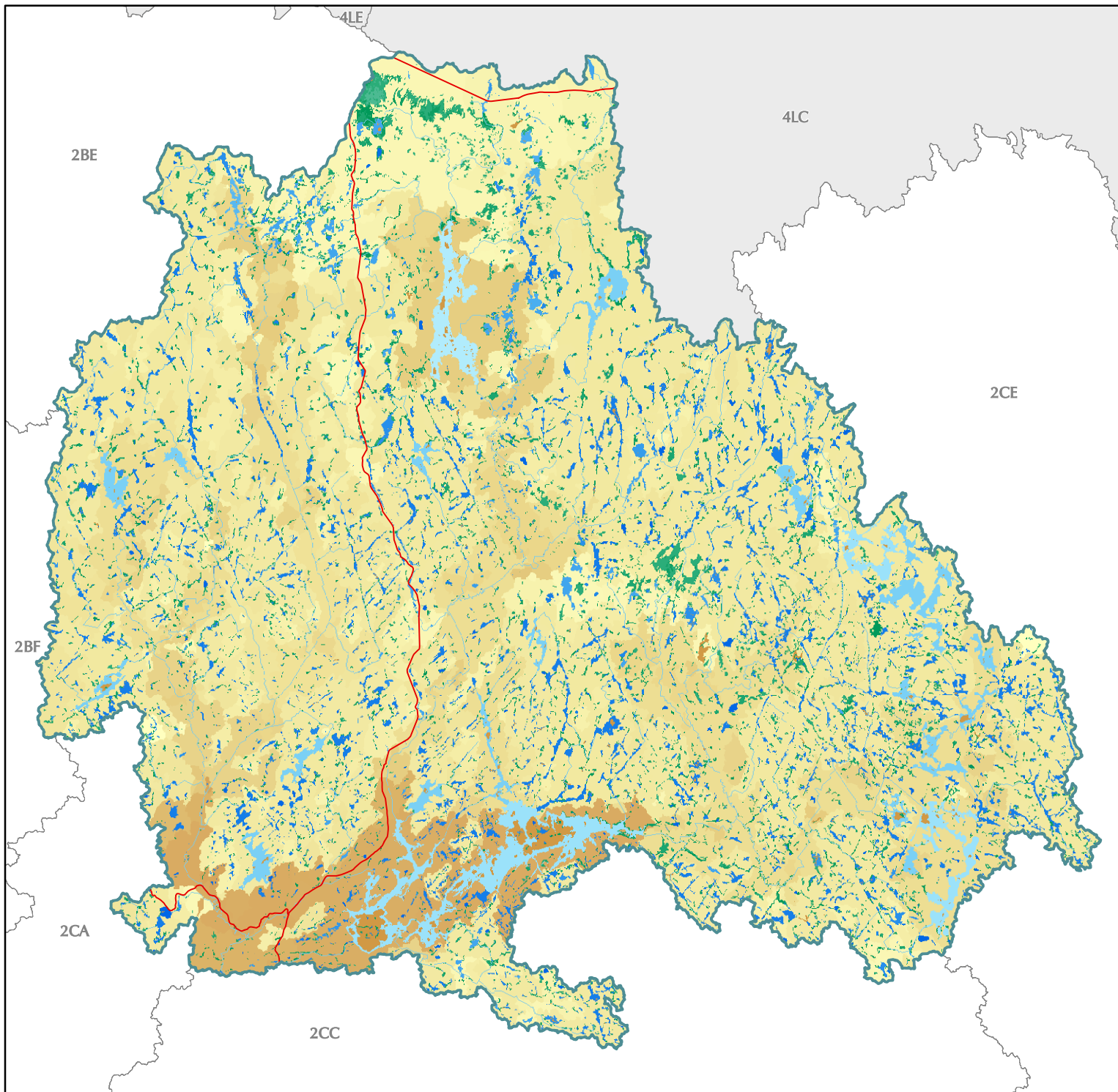
in provincially protected areas. Approximately 4,794 hectares are provincially significant life science ANSIs of which 757 hectares coincide with provincial parks and 1,914 hectares coincide with conservation reserves. There are about 67,502 hectares of protected stream systems, 20,941 hectares of protected lakes and 4,555 hectares of protected wetlands.

Species and Vegetation Community Targets:

One species target is documented in 2CB; the Bald Eagle (*Haliaeetus leucocephalus*) which is a secondary target. There are two occurrences for Bald Eagle in protected areas. No occurrences of rare vegetation communities are documented in this watershed.

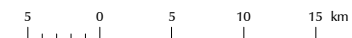
Conservation Blueprint:

The Conservation Blueprint includes 119,629 hectares of stream systems, 22,011 hectares of lakes and 5,347 hectares of wetlands. The Conservation Blueprint also includes two of the known occurrences of Bald Eagle.

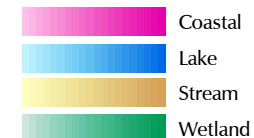


Great Lakes Conservation Blueprint for Biodiversity

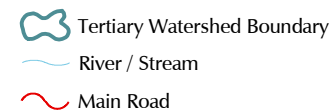
WENEBEGON WATERSHED 2CB



Aquatic Ecological Systems



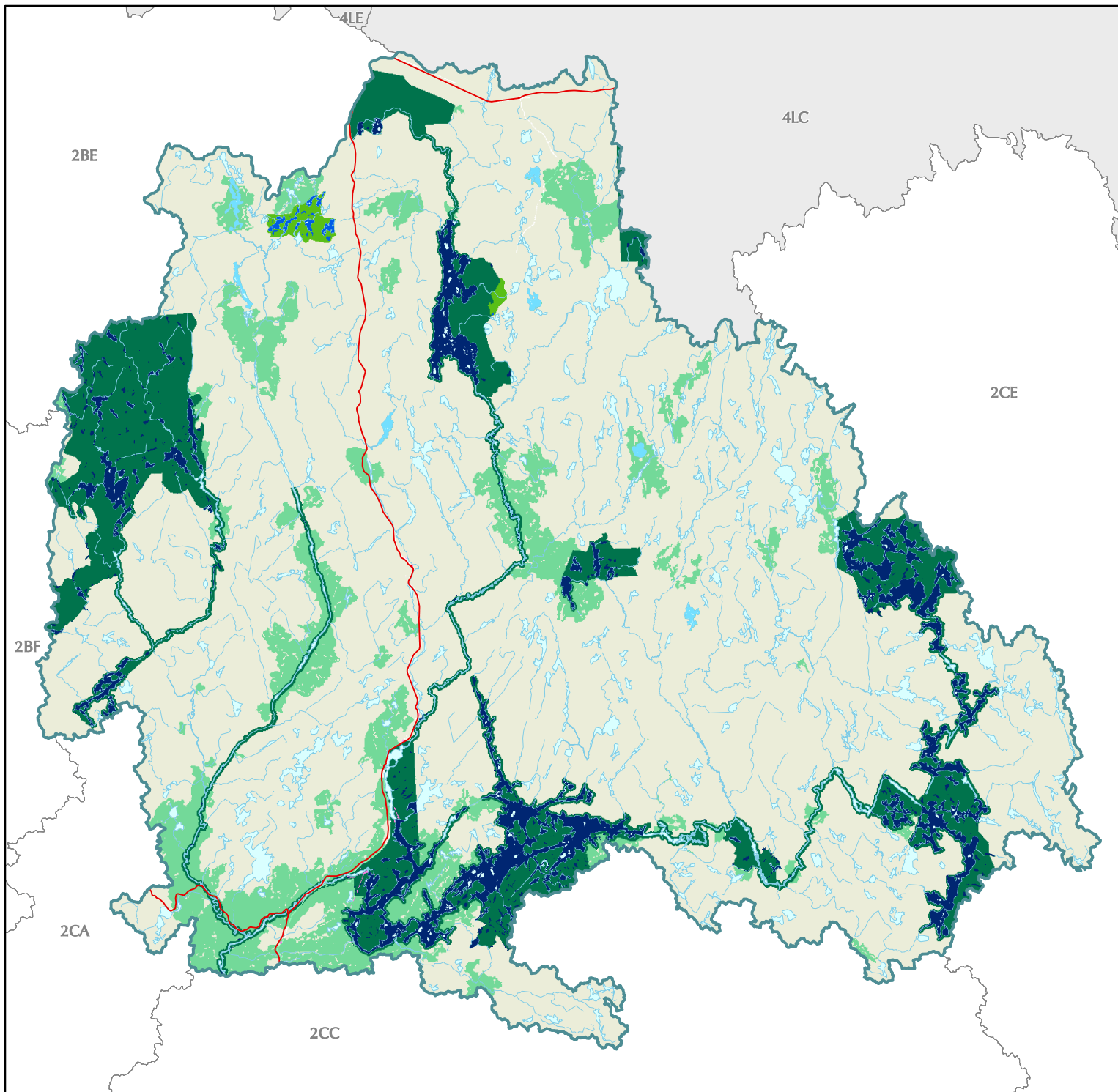
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

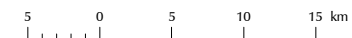
For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

WENEBEGON WATERSHED 2CB



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Documented extant significant species information for tertiary watershed 2CB

Number of pops in 2CB	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in Parks and PAs	% of pops in Parks and PAs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species														
7	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S4B,SZN	NAR	END-R	SAR	2	29	2	29	2	29	secondary

Ecological systems summary for tertiary watershed 2CB

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stream Systems	494659.00	85.66	67502.81	13.65	119629.25	24.18	119389.19	24.14
Lake Systems	51564.56	8.93	20941.19	40.61	22011.50	42.69	22011.50	42.69
Wetland Systems	26908.50	4.66	4555.25	16.93	5347.69	19.87	5347.69	19.87
Tertiary watershed	577444.19	100.00	95958.50	16.62	149947.38	25.97	149707.31	25.93

Ecological systems details for tertiary watershed 2CB

System Integer	# of patches in 2CB	Total area (ha) in 2CB	% of total area in 2CB	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																
Stream Systems																
201	1	9.38	0.00			0.00			0.00			0.00				0.00
202	2	66.19	0.01	1	4.69	7.08			0.00	1	4.69	7.08	2	66.19	66.19	100.00
203	57	4966.19	0.86	9	460.25	9.27	15	260.50	5.25	22	670.75	13.51	28	2128.50	2128.50	42.86
204	9	1670.38	0.29	3	122.94	7.36			0.00	3	122.94	7.36	7	1668.44	1668.44	99.88
205	148	28173.81	4.88	33	2662.44	9.45	25	706.94	2.51	58	3369.38	11.96	90	5001.19	5001.19	17.75
206	33	8424.31	1.46	8	274.31	3.26			0.00	8	274.31	3.26	15	1020.25	1014.13	12.11
207	1	189.25	0.03			0.00			0.00			0.00	1	189.25	189.25	100.00
208	126	10291.25	1.78	10	239.00	2.32	6	215.56	2.09	16	454.56	4.42	33	1654.88	1654.88	16.08
209	112	9439.13	1.63	20	1187.19	12.58	1	9.25	0.10	20	1187.19	12.58	25	1310.38	1310.38	13.88
210	33	3064.75	0.53	3	7.75	0.25			0.00	3	7.75	0.25	29	1889.69	1885.38	61.66
211	128	14288.19	2.47	16	549.75	3.85	5	64.38	0.45	21	614.13	4.30	53	4112.31	4112.31	28.78

System Integer	# of patches in 2CB	Total area (ha) in 2CB	% of total area in 2CB	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Stream Systems continued																
212	55	8646.69	1.50	8	732.50	8.47			0.00	8	732.50	8.47	12	1277.06	1277.06	14.77
213	970	109123.63	18.90	211	7671.94	7.03	1	51.25	0.05	211	7671.94	7.03	287	8179.56	8179.56	7.50
214	529	104016.25	18.01	99	13484.06	12.96	4	246.25	0.24	100	13484.50	12.96	164	13787.44	13787.44	13.26
215	16	5453.75	0.94			0.00			0.00			0.00	3	3160.13	3140.56	57.94
216	12	1941.31	0.34	4	72.06	3.71			0.00	4	72.06	3.71	7	1620.38	1620.38	83.47
217	292	32038.31	5.55	40	1548.31	4.83			0.00	40	1548.31	4.83	57	2503.88	2503.88	7.82
218	48	7752.81	1.34	20	2163.88	27.91	1	4.94	0.06	20	2163.88	27.91	26	2731.31	2731.31	35.23
219	6	4585.19	0.79	3	831.06	18.12			0.00	3	831.06	18.12	7	4585.00	4585.00	100.00
220	3	129.50	0.02	1	2.00	1.54			0.00	1	2.00	1.54	3	129.50	129.50	100.00
221	254	62992.13	10.91	120	17442.94	27.69			0.00	120	17442.94	27.69	248	17593.31	17593.31	27.93
223	9	312.06	0.05	6	22.94	7.35			0.00	6	22.94	7.35	8	129.88	129.88	41.62
224	3	549.81	0.10	2	96.50	17.55			0.00	2	96.50	17.55	4	549.81	549.81	100.00
225	4	459.88	0.08	5	107.19	23.31			0.00	5	107.19	23.31	5	439.38	436.44	95.54
226	47	11795.75	2.04	23	888.31	7.53			0.00	23	888.31	7.53	37	5272.13	5272.13	44.70
227	87	13669.81	2.37	54	797.81	5.84			0.00	54	797.81	5.84	71	2110.38	2110.38	15.44
228	11	2197.75	0.38	11	230.00	10.47			0.00	11	230.00	10.47	13	1886.25	1886.25	85.83
229	2	89.25	0.02	1	1.88	2.10			0.00	1	1.88	2.10	2	89.25	89.25	100.00
230	1	6.88	0.00	1	3.31	48.18			0.00	1	3.31	48.18	1	3.31	3.31	48.18
231	67	15154.88	2.62	35	4223.31	27.87	4	2558.69	16.88	37	4529.94	29.89	52	5089.25	5074.31	33.58
233	18	1665.38	0.29	8	53.94	3.24			0.00	8	53.94	3.24	10	1568.00	1568.00	94.15
235	6	431.38	0.07	6	21.31	4.94	1	1.50	0.35	6	21.31	4.94	6	428.69	428.69	99.38
242	1	1000.44	0.17			0.00			0.00			0.00	2	1000.44	1000.44	100.00
243	1	190.44	0.03			0.00			0.00			0.00	1	190.44	180.19	100.00
247	9	4791.88	0.83	7	1179.88	24.62			0.00	7	1179.88	24.62	8	4791.50	4741.81	99.99
248	23	10285.31	1.78	18	3338.88	32.46			0.00	18	3338.88	32.46	22	9768.81	9666.69	94.98
249	2	647.81	0.11	3	146.69	22.64			0.00	3	146.69	22.64	3	647.81	627.69	100.00
250	113	12769.56	2.21	98	5368.63	42.04			0.00	98	5368.63	42.04	178	10645.31	10635.31	83.36
253	2	332.81	0.06	4	10.88	3.27			0.00	4	10.88	3.27	2	332.81	332.81	100.00
254	1	58.56	0.01	1	31.25	53.36			0.00	1	31.25	53.36	1	58.56	58.56	100.00

System Integer	# of patches in 2CB	Total area (ha) in 2CB	% of total area in 2CB	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Lake Systems																
302	23	2679.38	0.46	23	2679.38	100.00			0.00	23	2679.38	100.00	62	2679.38	2679.38	100.00
309	37	9032.94	1.56	36	9031.25	99.98			0.00	36	9031.25	99.98	103	9031.25	9031.25	99.98
315	55	8828.88	1.53	36	4518.75	51.18			0.00	36	4518.75	51.18	97	4518.75	4518.75	51.18
322	5	230.50	0.04			0.00			0.00			0.00	6	230.13	230.13	99.84
325	53	524.69	0.09	4	9.50	1.81			0.00	4	9.50	1.81	14	275.44	275.44	52.50
326	423	3133.94	0.54	45	536.38	17.12	15	351.56	11.22	60	887.94	28.33	88	888.00	888.00	28.33
327	16	29.31	0.01	10	11.63	39.66			0.00	10	11.63	39.66	12	11.63	11.63	39.66
328	63	223.56	0.04	13	8.25	3.69	2	0.63	0.28	15	8.88	3.97	20	134.19	134.19	60.02
329	292	772.94	0.13	39	106.00	13.71			0.00	39	106.00	13.71	54	106.00	106.00	13.71
330	168	1712.88	0.30	27	113.88	6.65	1	35.13	2.05	28	149.00	8.70	57	596.63	596.63	34.83
331	234	593.63	0.10	40	76.44	12.88	7	28.25	4.76	47	104.69	17.64	50	104.69	104.69	17.64
332	14	20.56	0.00	2	3.13	15.20			0.00	2	3.13	15.20	2	3.13	3.13	15.20
333	3421	20168.06	3.49	425	3031.19	15.03	4	31.31	0.16	425	3031.19	15.03	712	3031.19	3031.19	15.03
334	206	253.38	0.04	36	23.25	9.18			0.00	36	23.25	9.18	40	23.75	23.75	9.37
335	47	102.44	0.02	5	2.00	1.95	2	2.69	2.62	7	4.69	4.58	8	5.44	5.44	5.31
336	1427	3257.50	0.56	185	371.94	11.42			0.00	185	371.94	11.42	206	371.94	371.94	11.42
Wetland Systems																
407	11	219.88	0.04	10	217.31	98.83			0.00	10	217.31	98.83	13	217.31	217.31	98.83
408	13	73.13	0.01			0.00			0.00			0.00	7	47.69	47.69	65.21
409	1332	5413.88	0.94	169	1075.56	19.87	8	20.13	0.37	176	1092.69	20.18	194	1779.25	1779.25	32.86
410	1022	4642.06	0.80	123	548.25	11.81	18	54.00	1.16	139	599.25	12.91	151	657.31	657.31	14.16
Non-Target Ecological Systems																
Wetland Systems																
411	4419	6115.06	1.06	727	1118.63	18.29	31	43.88	0.72	756	1158.69	18.95	902	1158.75	1158.75	18.95
412	4031	10444.50	1.81	578	1394.19	13.35	41	100.81	0.97	613	1487.31	14.24	791	1487.38	1487.38	14.24
Unclassified Ecological Systems																
2	20	987.00	0.17	6	18.63	1.89			0.00	6	18.63	1.89	8	18.63	18.63	1.89
5	14	0.88	0.00	4	0.25	28.57			0.00	4	0.25	28.57				0.00
6	3045	4311.25	0.75	832	2953.25	68.50	19	6.19	0.14	848	2959.00	68.63	1014	2958.94	2958.94	68.63

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and **Additional Designated Natural Heritage Areas** which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Mississagi

Tertiary Watershed 2CC

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area: 356,898 hectares (881,894 acres)

Land Ownership: Crown Land ~ 73 %
Private Land ~ 25%
First Nations Lands ~ 2 %

Planning Authority: 100% Algoma District

General Description:

Tertiary watershed 2CC drains into the North Channel of Lake Huron. There are approximately 4,559 hectares of coastal areas, 303,946 hectares of stream systems, 34,541 hectares of lakes and 11,917 hectares of wetlands. Watershed 2CC also contains some coastline along the North Channel. A few small offshore islands are present. The Mississagi River, a major waterway draining into Lake Huron, is located in this watershed. Deciduous and mixed forests dominate the natural cover. Coniferous forest is also present, and is more concentrated in the northern reaches of the catchment. A few wetlands occur in the watershed including open fens, open bogs and treed bogs.

Land Use:

Settlements include Sowerby, Iron Bridge and Wharncliffe. Although there are very few developed lands in the region, there is a stretch of pasture and abandoned field along the Lake Huron shore. There is little forestry activity.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2CC is 44,060 hectares, constituting approximately 12.4% of the



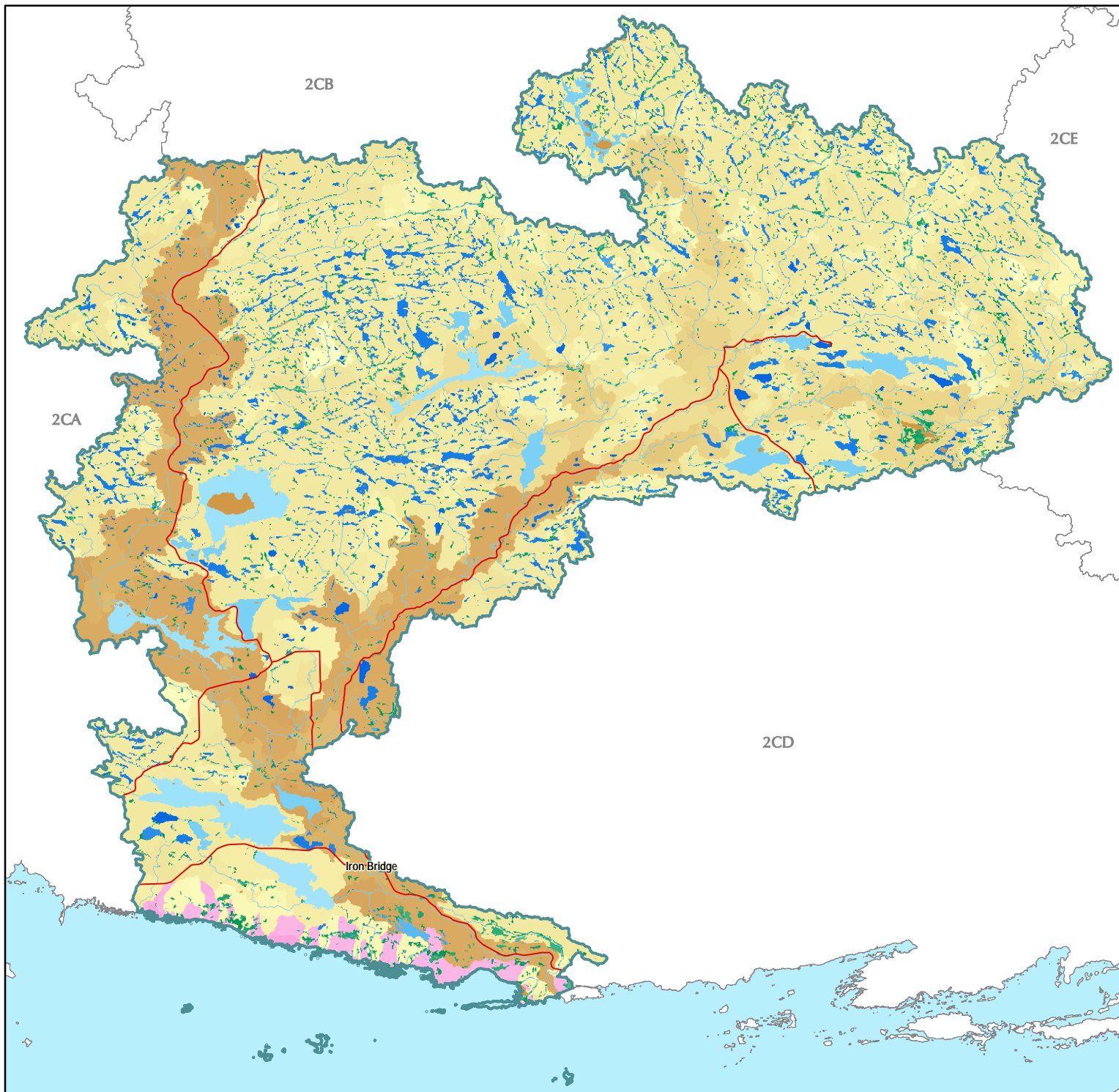
watershed's total area. All of these lands are located in provincially protected areas. There are about 2,148 hectares of protected coastal areas, 31,873 hectares of protected stream systems, 7,011 hectares of protected lakes and 1,805 hectares of protected wetlands.

Species and Vegetation Community Targets:

Three species targets are documented in 2CC; the primary target Extra-striped Snaketail (*Ophiogomphus anomalus*) and secondary targets Wood Turtle (*Glyptemys insculpta*) and Northern Map Turtle (*Graptemys geographica*). There is one known occurrence for Wood Turtle in a protected area. There are no documented occurrences of rare vegetation communities in this watershed.

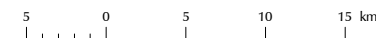
Conservation Blueprint:

The Conservation Blueprint includes 2,734 hectares of coastal areas, 96,335 hectares of stream systems, 13,007 hectares of lakes and 2,042 hectares of wetlands. The Conservation Blueprint also includes the only known species occurrence for the primary target Extra-striped Snaketail and two of the known occurrences for Wood Turtle.

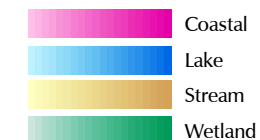


Great Lakes Conservation Blueprint for Biodiversity

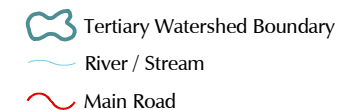
MISSISSAGI WATERSHED 2CC



Aquatic Ecological Systems



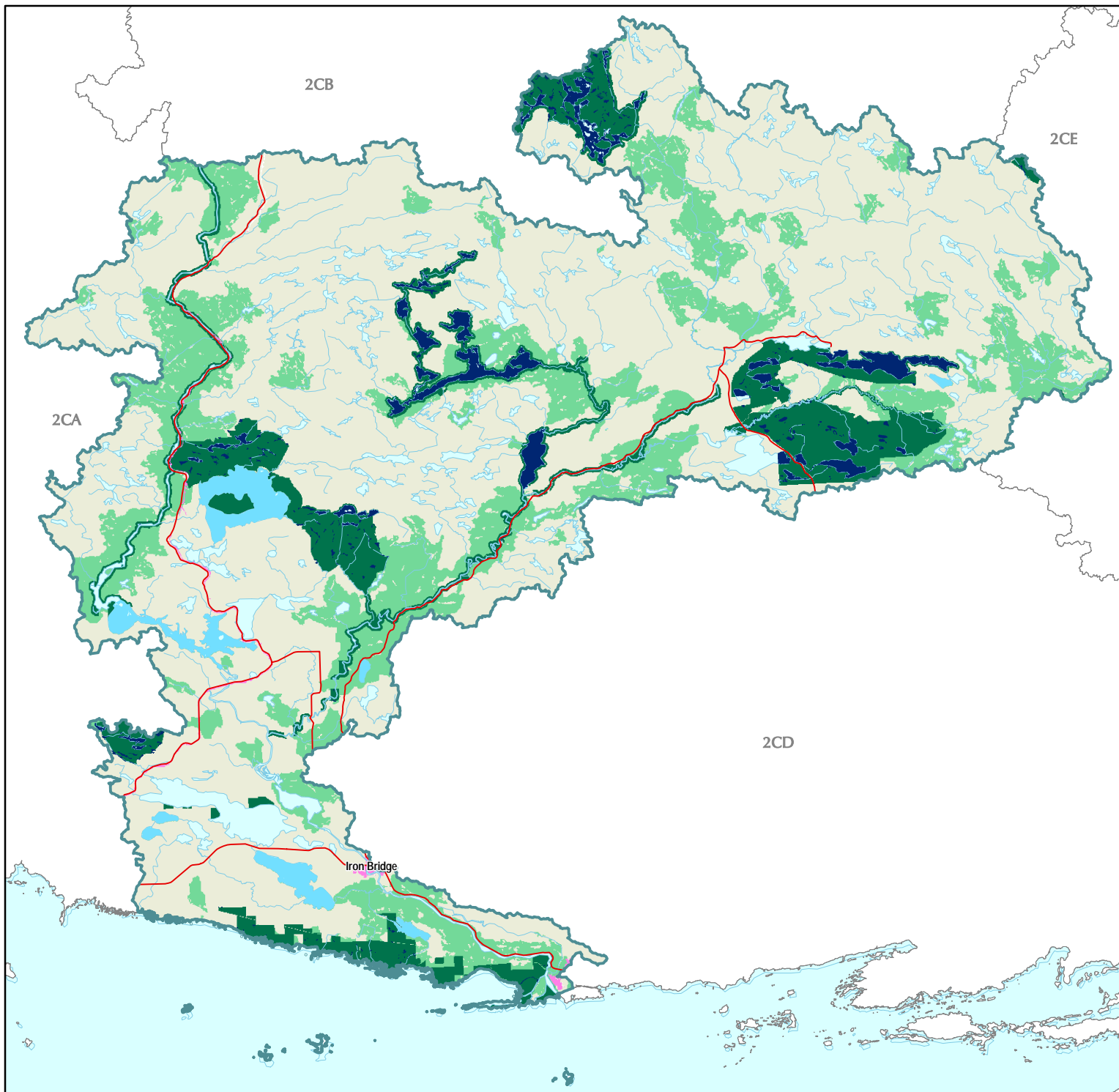
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

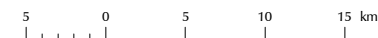
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Great Lakes Conservation Blueprint for Biodiversity

MISSISSAGI WATERSHED 2CC



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Documented extant significant species information for tertiary watershed 2CC

Number of pops in 2CC	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in Parks and PAs	% of pops in Parks and PAs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species														
3	<i>Glyptemys insculpta</i>	Wood Turtle	G4	S2	SC	END	SAR	1	33	1	33	2	67	secondary
1	<i>Graptemys geographica</i>	Northern Map Turtle	G5	S3	SC	SC	SAR	0	0	0	0	0	0	secondary
1	<i>Ophiogomphus anomalus</i>	Extra-striped Snaketail	G3	S2			GRank	0	0	0	0	1	100	4

Ecological systems summary for tertiary watershed 2CC

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	4559.50	1.28	2148.31	47.12	2734.13	59.97	2734.13	59.97
Stream Systems	303946.00	85.16	31873.69	10.49	96335.06	31.69	96190.13	31.65
Lake Systems	34541.25	9.68	7011.38	20.30	13007.25	37.66	13007.25	37.66
Wetland Systems	11917.94	3.34	1805.75	15.15	2042.38	17.14	2042.38	17.14
Tertiary watershed	356898.00	100.00	44060.13	12.35	115339.81	32.32	115194.88	32.28

Ecological systems details for tertiary watershed 2CC

System Integer	# of patches in 2CC	Total area (ha) in 2CC	% of total area in 2CC	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems													
Coastal Systems													
101	9	6.38	0.00	4	2.38	37.25	4	2.38	37.25	7	5.88	5.88	92.16
104	31	35.38	0.01	14	13.81	39.05	14	13.81	39.05	20	16.31	16.31	46.11
105	22	112.69	0.03	20	64.69	57.40	20	64.69	57.40	25	64.75	64.75	57.46
108	19	35.25	0.01	12	16.75	47.52	12	16.75	47.52	13	18.31	18.31	51.95
113	18	21.69	0.01	16	17.81	82.13	16	17.81	82.13	27	17.81	17.81	82.13
116	63	61.88	0.02	43	40.31	65.15	43	40.31	65.15	53	41.63	41.63	67.27
125	12	275.00	0.08	5	159.56	58.02	5	159.56	58.02	6	185.63	185.63	67.50
126	8	257.69	0.07	5	101.56	39.41	5	101.56	39.41	5	109.13	109.13	42.35
127	71	3740.94	1.05	58	1723.00	46.06	58	1723.00	46.06	61	2266.25	2266.25	60.58
199	8	12.38	0.00	4	8.44	68.18	4	8.44	68.18	4	8.44	8.44	68.18

System Integer	# of patches in 2CC	Total area (ha) in 2CC	% of total area in 2CC	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued													
Stream Systems													
201	5	379.81	0.11			0.00			0.00	4	299.38	299.38	78.82
203	119	4024.25	1.13	34	832.13	20.68	34	832.13	20.68	54	1229.69	1229.69	30.56
204	4	316.25	0.09			0.00			0.00	3	267.19	267.19	84.49
205	78	3728.88	1.04	9	207.44	5.56	9	207.44	5.56	37	1459.63	1434.50	39.14
206	23	982.44	0.28	9	79.81	8.12	9	79.81	8.12	11	592.94	592.94	60.35
207	16	1947.63	0.55	2	0.31	0.02	2	0.31	0.02	9	1361.06	1361.06	69.88
208	82	8274.13	2.32	14	165.88	2.00	14	165.88	2.00	23	1804.81	1804.81	21.81
209	130	12820.13	3.59	20	666.06	5.20	20	666.06	5.20	47	1789.63	1789.63	13.96
210	27	4451.13	1.25			0.00			0.00	3	861.44	861.44	19.35
211	43	4848.38	1.36	13	313.63	6.47	13	313.63	6.47	31	515.94	515.94	10.64
212	59	4592.94	1.29	4	644.31	14.03	4	644.31	14.03	10	1706.38	1706.38	37.15
213	695	91248.00	25.57	83	9515.19	10.43	83	9515.19	10.43	148	10025.50	10025.50	10.99
214	369	40268.44	11.28	85	7047.94	17.50	85	7047.94	17.50	155	7877.88	7877.88	19.56
215	8	839.88	0.24	1	9.06	1.08	1	9.06	1.08	5	760.25	750.88	90.52
216	22	2131.63	0.60			0.00			0.00	7	1276.88	1276.88	59.90
217	152	23417.75	6.56	12	127.31	0.54	12	127.31	0.54	22	855.88	855.88	3.65
218	38	4386.06	1.23	2	2.50	0.06	2	2.50	0.06	24	1444.88	1444.88	32.94
219	28	1202.81	0.34	1	3.00	0.25	1	3.00	0.25	27	1178.19	1178.19	97.95
220	5	2166.69	0.61			0.00			0.00	5	2166.56	2166.56	99.99
221	56	13799.81	3.87	61	3039.25	22.02	61	3039.25	22.02	81	6465.56	6465.56	46.85
222	8	1405.81	0.39	4	21.38	1.52	4	21.38	1.52	6	1405.13	1405.13	99.95
223	4	281.94	0.08	2	9.81	3.48	2	9.81	3.48	3	281.88	281.88	99.98
225	2	130.38	0.04	1	9.06	6.95	1	9.06	6.95	2	130.38	130.38	100.00
226	59	8126.63	2.28	37	2258.94	27.80	37	2258.94	27.80	62	6482.00	6482.00	79.76
227	37	7930.38	2.22	13	441.75	5.57	13	441.75	5.57	39	4506.88	4506.88	56.83
228	6	287.31	0.08	5	51.13	17.79	5	51.13	17.79	7	246.69	246.69	85.86
229	1	85.25	0.02	2	1.63	1.91	2	1.63	1.91	1	85.25	85.25	100.00
231	4	471.38	0.13	6	89.88	19.07	6	89.88	19.07	4	471.19	471.19	99.96
233	16	1333.56	0.37	19	208.25	15.62	19	208.25	15.62	31	888.75	888.75	66.64
235	5	533.94	0.15	1	8.44	1.58	1	8.44	1.58	5	464.25	464.25	86.95
236	1	35.88	0.01	1	21.31	59.41	1	21.31	59.41	1	21.31	21.31	59.41
237	1	89.81	0.03			0.00			0.00	1	89.81	89.81	100.00
238	3	386.38	0.11	5	19.69	5.10	5	19.69	5.10	3	386.38	386.38	100.00

System Integer	# of patches in 2CC	Total area (ha) in 2CC	% of total area in 2CC	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued													
Stream Systems continued													
241	5	1223.75	0.34	8	104.50	8.54	8	104.50	8.54	6	1223.75	1223.75	100.00
242	6	455.63	0.13	6	5.50	1.21	6	5.50	1.21	7	455.38	455.00	99.95
243	3	702.94	0.20	3	83.25	11.84	3	83.25	11.84	3	702.94	702.94	100.00
245	1	0.19	0.00			0.00			0.00				0.00
247	37	7322.00	2.05	16	649.50	8.87	16	649.50	8.87	38	3299.31	3299.31	45.06
248	39	6633.25	1.86	17	1069.13	16.12	17	1069.13	16.12	49	1553.19	1551.44	23.42
249	6	1350.38	0.38	3	4.13	0.31	3	4.13	0.31	9	1327.06	1327.06	98.27
250	70	33775.13	9.46	49	3982.25	11.79	49	3982.25	11.79	50	24569.00	24460.69	72.74
251	1	0.38	0.00			0.00			0.00				0.00
252	12	2572.50	0.72	4	162.00	6.30	4	162.00	6.30	10	2495.06	2495.06	96.99
253	5	667.50	0.19	3	18.38	2.75	3	18.38	2.75	5	666.19	666.19	99.80
254	3	644.06	0.18			0.00			0.00	4	643.69	643.69	99.94
Lake Systems													
306	1	1216.50	0.34			0.00			0.00	1	1216.50	1216.50	100.00
309	17	7833.56	2.19	9	1100.56	14.05	9	1100.56	14.05	35	5145.31	5145.31	65.68
315	41	6082.25	1.70	26	2978.88	48.98	26	2978.88	48.98	64	2980.19	2980.19	49.00
322	2	236.19	0.07			0.00			0.00	5	236.19	236.19	100.00
325	51	58.63	0.02	20	14.06	23.99	20	14.06	23.99	44	14.31	14.31	24.41
326	266	759.88	0.21	48	55.00	7.24	48	55.00	7.24	91	55.50	55.50	7.30
327	9	4.50	0.00			0.00			0.00				0.00
328	53	30.69	0.01	15	10.38	33.81	15	10.38	33.81	16	10.38	10.38	33.81
329	229	466.44	0.13	39	61.38	13.16	39	61.38	13.16	73	61.38	61.38	13.16
330	109	985.06	0.28	6	100.00	10.15	6	100.00	10.15	19	225.63	225.63	22.90
331	202	405.81	0.11	36	98.69	24.32	36	98.69	24.32	43	98.69	98.69	24.32
332	20	18.69	0.01	3	2.88	15.38	3	2.88	15.38	3	2.88	2.88	15.38
333	2573	13105.31	3.67	256	2285.06	17.44	256	2285.06	17.44	441	2285.06	2285.06	17.44
334	194	201.56	0.06	10	3.75	1.86	10	3.75	1.86	13	5.31	5.31	2.64
335	74	103.44	0.03	6	2.88	2.78	6	2.88	2.78	8	5.56	5.56	5.38
336	1187	3032.75	0.85	96	297.88	9.82	96	297.88	9.82	114	664.38	664.38	21.91
Wetland Systems													
407	2	49.56	0.01			0.00			0.00	2	28.00	28.00	56.49
408	6	163.94	0.05	2	12.44	7.59	2	12.44	7.59	6	163.94	163.94	100.00
409	466	1357.69	0.38	92	253.63	18.68	92	253.63	18.68	101	255.44	255.44	18.81

System Integer	# of patches in 2CC	Total area (ha) in 2CC	% of total area in 2CC	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued													
Wetland Systems continued													
410	478	1994.88	0.56	78	317.19	15.90	78	317.19	15.90	93	372.44	372.44	18.67
Non-Target Ecological Systems													
Coastal Systems													
124	2	0.25	0.00			0.00			0.00				0.00
Wetland Systems													
411	2232	2655.94	0.74	325	507.56	19.11	325	507.56	19.11	388	507.56	507.56	19.11
412	2469	5695.94	1.60	300	714.94	12.55	300	714.94	12.55	396	715.00	715.00	12.55
Unclassified Ecological Systems													
2	8	1672.69	0.47			0.00			0.00				0
5	252	421.31	0.12	34	236.13	56.05	34	236.13	56.05	41	236.13	236.13	56.05
6	1091	1512.00	0.42	204	984.88	65.14	204	984.88	65.14	247	984.88	984.88	65.14

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Serpent

Tertiary Watershed 2CD

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area: 273,018 hectares (674,627 acres)

Land Ownership: Crown Land ~ 65 %
Private Land ~ 20%
First Nations Lands ~15 %

Planning Authority: 2% Sudbury District, 98% Algoma District

General Description:

Tertiary watershed 2CD drains into the North Channel of Lake Huron. There are approximately 6,076 hectares of coastal areas, 213,427 hectares of stream systems, 35,524 hectares of lakes and 14,111 hectares of wetlands. The watershed contains a significant stretch of Lake Huron coastline, along the North Channel. Several islands in the North Channel are included in this watershed, including John Island, Aird Island and Darch Island. The majority of land cover consists of sparse deciduous forests. Some mixed forests, dense deciduous forests, and sparse coniferous forests also occur. Treed bogs represent the few wetlands found in the watershed.

Land Use:

Blind River and Elliot Lake are the major settlements in this watershed. Smaller communities include Spanish, Cutler, Spragge, Serpent River and Algoma Mills. Land conversion is limited to development around Elliot Lake. Although little forestry is currently taking place, there is evidence of past cuts in the eastern portion of the watershed.



Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2CD is 45,358 hectares, constituting approximately 17% of the watershed's total area. The majority of these lands (45,352 ha) are located in provincially protected areas. There are about 1,868 hectares of protected coastal areas, 34,346 hectares of protected stream systems, 5,586 hectares of protected lakes and 1,407 hectares of protected wetlands.

Species and Vegetation Community Targets:

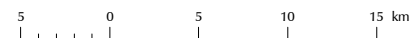
Least Bittern (*Ixobrychus exilis*), a secondary target, is the only species target known from watershed 2CD. The occurrence of Least Bittern does not coincide with a protected area in this watershed. There are no documented occurrences of rare vegetation communities in this watershed.

Conservation Blueprint:

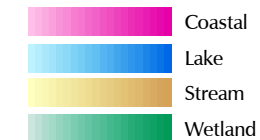
The Conservation Blueprint includes 2,724 hectares of coastal areas, 75,706 hectares of stream systems, 12,694 hectares of lakes and 2,381 hectares of wetlands. The Conservation Blueprint does not include the known occurrence of the secondary target Least Bittern.

Great Lakes Conservation Blueprint for Biodiversity

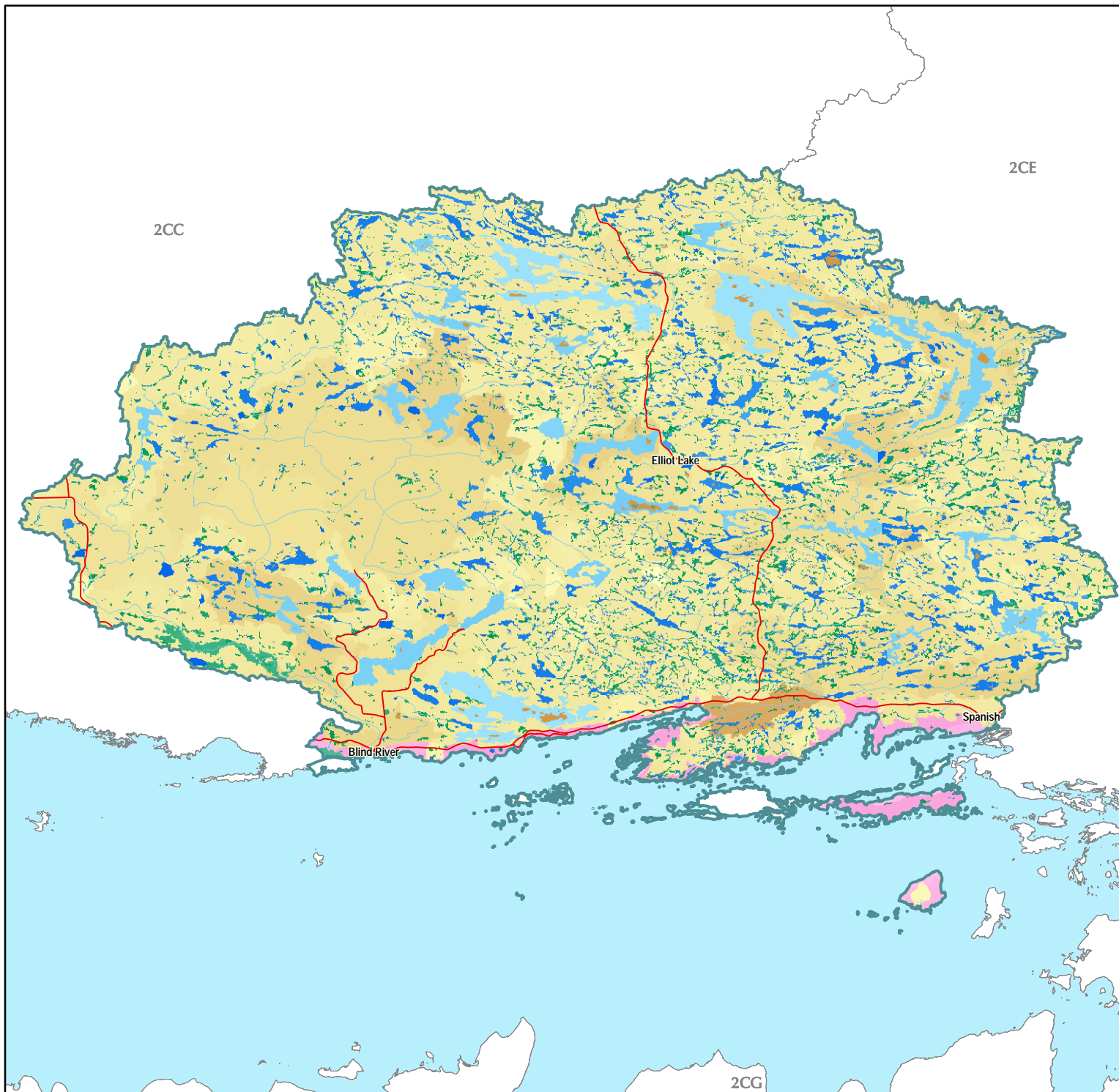
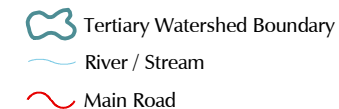
SERPENT WATERSHED 2CD



Aquatic Ecological Systems



Other Information



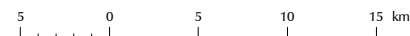
Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Great Lakes Conservation Blueprint for Biodiversity

SERPENT WATERSHED 2CD



Aquatic Conservation Blueprint

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- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

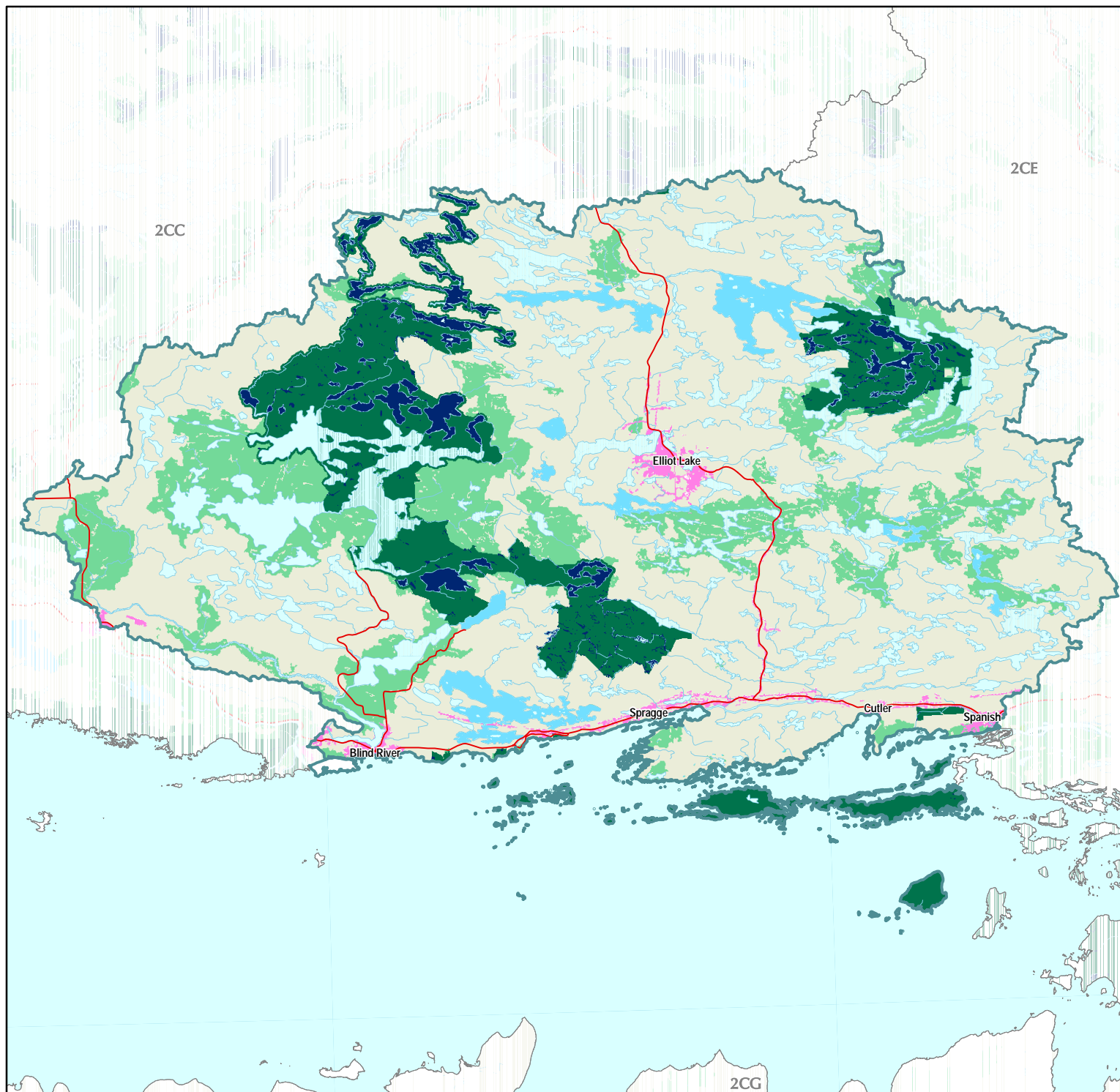
- Tertiary Watershed Boundary
- Lake / Water Course
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- Urban Area
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Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Documented extant significant species information for tertiary watershed 2CD

Number of pops in 2CD	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species												
1	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	0	0	0	secondary

Ecological systems summary for tertiary watershed 2CD

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	6076.06	2.23	1868.69	30.75	2724.25	44.84	2643.56	43.51
Stream Systems	213427.94	78.17	34346.88	16.09	75706.75	35.47	75625.94	35.43
Lake Systems	35524.81	13.01	5586.75	15.73	12694.00	35.73	12694.00	35.73
Wetland Systems	14111.13	5.17	1407.81	9.98	2381.06	16.87	2381.06	16.87
Tertiary watershed	273018.75	100.00	45358.00	16.61	95653.75	35.04	95492.25	34.98

Ecological systems details for tertiary watershed 2CD

System Integer	# of patches in 2CD	Total area (ha) in 2CD	% of total area in 2CD	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks in PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) system in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems													
Coastal Systems													
101	3	10.00	0.00			0.00			0.00	4	10.13	10.13	100
104	79	261.25	0.10	29	131.56	50.36	29	131.56	50.36	40	133.94	133.94	51.27
105	9	68.13	0.02	2	22.38	32.84	2	22.38	32.84	8	48.19	48.19	70.73
108	61	235.69	0.09	32	84.50	35.85	32	84.50	35.85	33	84.75	84.75	35.96
113	14	44.31	0.02	1	3.13	7.05	2	3.69	8.32	4	25.00	25.00	56.42
115	3	14.38	0.01			0.00	1	1.25	8.70	3	14.38	14.38	100
116	57	128.75	0.05	14	32.13	24.95	14	32.13	24.95	19	33.63	33.63	26.12
125	53	3734.88	1.37	14	933.25	24.99	15	935.13	25.04	23	1464.00	1464.00	39.20
126	8	273.94	0.10	6	59.38	21.67	6	59.38	21.67	7	103.13	103.13	37.65
127	19	775.63	0.28	2	260.25	33.55	5	261.63	33.73	6	470.06	389.38	60.60
199	52	511.94	0.19	22	336.00	65.63	22	336.00	65.63	26	336.00	336.00	65.63

System Integer	# of patches in 2CD	Total area (ha) in 2CD	% of total area in 2CD	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks in PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) system in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued													
Stream Systems													
201	3	84.13	0.03			0.00			0.00	2	84.00	84.00	99.85
203	14	688.44	0.25	3	322.81	46.89	3	322.81	46.89	6	535.38	535.38	77.77
204	10	425.13	0.16	1	82.56	19.42	1	82.56	19.42	9	336.94	335.94	79.26
205	15	321.69	0.12			0.00			0.00	4	245.06	245.00	76.18
207	4	236.88	0.09			0.00			0.00	6	236.81	236.81	99.97
208	64	3473.19	1.27	13	415.31	11.96	13	415.31	11.96	38	554.25	554.25	15.96
209	84	7723.75	2.83	20	2309.75	29.90	20	2309.75	29.90	34	2850.13	2850.13	36.90
210	33	1504.81	0.55			0.00			0.00	29	788.88	788.88	52.42
211	54	3610.19	1.32	4	639.38	17.71	4	639.38	17.71	10	2079.81	2079.81	57.61
212	24	4227.50	1.55	6	55.31	1.31	6	55.31	1.31	9	1646.00	1646.00	38.94
213	438	58637.75	21.48	86	9133.56	15.58	87	9133.69	15.58	203	11817.75	11817.75	20.15
214	327	40494.13	14.83	71	3982.06	9.83	71	3982.06	9.83	110	4434.06	4434.06	10.95
215	2	34.44	0.01			0.00			0.00				0.00
216	16	1615.94	0.59			0.00			0.00	5	1486.19	1486.19	91.97
217	101	11605.25	4.25	10	743.63	6.41	10	743.63	6.41	30	1852.75	1852.75	15.96
218	23	3776.25	1.38			0.00			0.00	12	3500.44	3491.44	92.70
219	34	14041.31	5.14	3	375.63	2.68	3	375.63	2.68	19	11951.13	11899.75	85.11
220	14	4341.63	1.59			0.00			0.00	10	4143.50	4133.13	95.44
221	123	36124.00	13.23	25	13699.31	37.92	25	13699.31	37.92	86	22360.00	22360.00	61.90
222	1	43.44	0.02			0.00			0.00				0.00
223	1	39.06	0.01			0.00			0.00				0.00
225	2	0.56	0.00			0.00			0.00				0.00
226	34	3404.50	1.25			0.00			0.00	19	798.75	798.75	23.46
227	75	13373.56	4.90	16	2123.25	15.88	16	2123.25	15.88	33	2338.81	2338.81	17.49
228	1	18.31	0.01	2	14.81	80.89	2	14.81	80.89	2	14.81	14.81	80.89
231	1	21.81	0.01	1	20.38	93.41	1	20.38	93.41	1	20.38	20.38	93.41
233	13	1547.06	0.57	4	429.00	27.73	4	429.00	27.73	5	1511.69	1511.69	97.71
234	1	92.63	0.03			0.00			0.00	1	92.63	83.63	100.00
241	1	0.06	0.00			0.00			0.00	1	0.06	0.06	100.00
247	9	0.69	0.00			0.00			0.00				0.00

System Integer	# of patches in 2CD	Total area (ha) in 2CD	% of total area in 2CD	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks in PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) system in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued													
Stream Systems continued													
248	13	1.13	0.00			0.00			0.00				0.00
250	23	1781.63	0.65			0.00			0.00	21	25.50	25.50	1.43
254	11	1.00	0.00			0.00			0.00	13	1.06	1.06	100
Lake Systems													
309	15	6319.50	2.31			0.00			0.00	9	5288.00	5288.00	83.68
314	1	240.69	0.09			0.00			0.00	1	240.69	240.69	100.00
315	31	9322.19	3.41	11	2475.31	26.55	11	2475.31	26.55	19	2475.31	2475.31	26.55
317	5	796.00	0.29			0.00			0.00	7	795.81	795.81	99.98
325	41	35.38	0.01			0.00			0.00				0.00
326	108	306.06	0.11	3	3.38	1.10	3	3.38	1.10	8	5.31	5.31	1.74
327	79	161.50	0.06	3	16.13	9.98	3	16.13	9.98	6	17.94	17.94	11.11
328	33	18.19	0.01	1	0.31	1.72	1	0.31	1.72	1	0.31	0.31	1.72
329	664	1363.50	0.50	58	114.94	8.43	58	114.94	8.43	93	253.25	253.25	18.57
330	263	2047.13	0.75	30	165.50	8.08	30	165.50	8.08	45	558.06	558.06	27.26
331	75	55.06	0.02	3	1.56	2.84	3	1.56	2.84	6	3.13	3.13	5.68
332	43	38.19	0.01	4	0.69	1.80	4	0.69	1.80	5	0.69	0.69	1.80
333	2773	12584.44	4.61	373	2483.19	19.73	373	2483.19	19.73	636	2723.88	2723.88	21.64
334	434	377.94	0.14	60	42.31	11.20	60	42.31	11.20	67	44.44	44.44	11.76
335	177	128.56	0.05	20	10.63	8.26	20	10.63	8.26	21	10.69	10.69	8.31
336	1571	1730.50	0.63	230	272.81	15.76	230	272.81	15.76	253	276.50	276.50	15.98
Wetland Systems													
407	6	104.75	0.04			0.00			0.00	10	104.88	104.88	100.00
408	2	731.75	0.27			0.00			0.00	4	731.75	731.75	100.00
409	312	948.69	0.35	43	78.06	8.23	43	78.06	8.23	49	78.06	78.06	8.23
410	206	1070.13	0.39	23	114.94	10.74	23	114.94	10.74	33	251.50	251.50	23.50
Non-Target Ecological Systems													
Coastal Systems													
121	1	3.88	0.00			0.00			0.00				0.00
122	1	0.31	0.00			0.00			0.00				0.00
124	7	10.63	0.00	1	0.94	8.82	2	1.06	10.00	2	1.06	1.06	10.00

System Integer	# of patches in 2CD	Total area (ha) in 2CD	% of total area in 2CD	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks in PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) system in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Non-Target Ecological Systems													
Wetland Systems													
411	2568	4396.19	1.61	370	561.63	12.78	370	561.63	12.78	423	561.69	561.69	12.78
412	1897	6859.63	2.51	283	653.19	9.52	283	653.19	9.52	372	653.19	653.19	9.52
Unclassified Ecological Systems													
1	1	2.38	0.00			0.00			0.00				0.00
2	1	136.13	0.05			0.00			0.00				0.00
5	468	2606.50	0.95	254	2016.81	77.38	254	2016.81	77.38	270	2016.63	2016.63	77.37
6	1430	1272.31	0.47	203	131.06	10.30	203	131.06	10.30	227	131.06	131.06	10.30

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Spanish

Tertiary Watershed 2CE

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area: 949,916 hectares (2,347,242 acres)

Land Ownership: Crown Land ~ 85 %
Private Land ~ 10%
First Nations Lands ~5 %

Planning Authority: 73% City of Greater Sudbury
25% Algoma
2% Sudbury District

General Description:

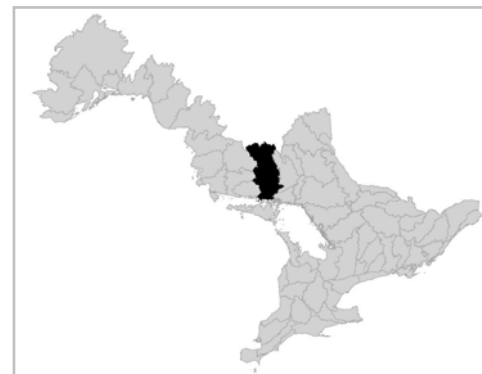
Tertiary watershed 2CE drains into the North Channel of Lake Huron and includes the Spanish River and the River Aux Sables. There are approximately 5,565 hectares of coastal areas, 800,408 hectares of stream systems, 84,297 hectares of lakes and 51,943 hectares of wetlands. The watershed contains a stretch of coastline on the North Channel. The dominant vegetation type is mixed forest, while sparse deciduous forests are dominant in the southern portion of the watershed. Some coniferous forests are scattered through the entire area. Treed bogs are also present.

Land Use:

Espanola is the primary developed area. Other smaller communities include Biscotasing, Cartier, Nairn Centre, Walford and Webbwood. A small area of pasture can be found at the south end of the watershed. Forestry is the primary activity on the landbase. Evidence of recent and older cuts is scattered throughout the region.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2CE is 115,449 hectares, constituting approximately 12% of the



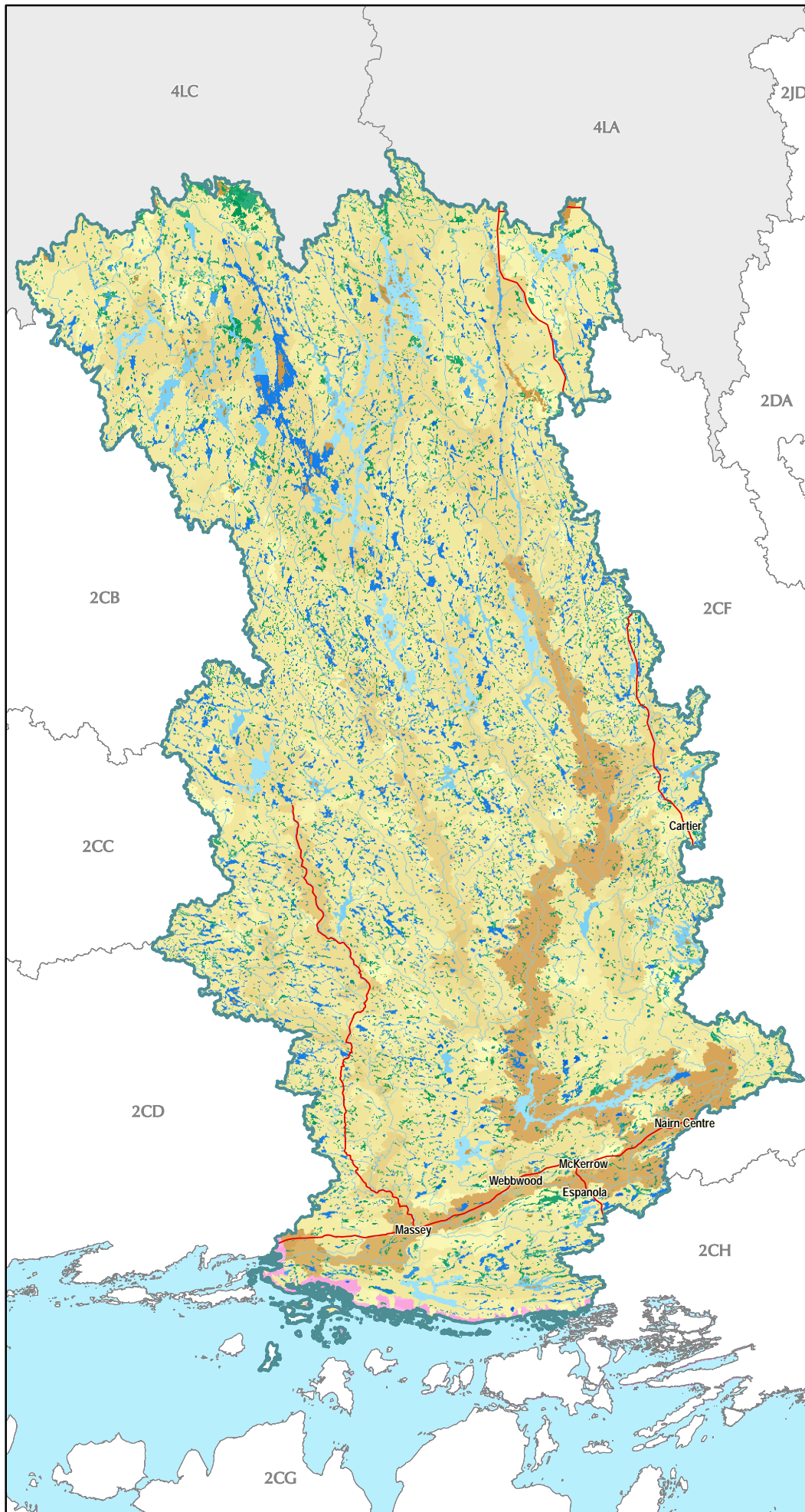
watershed's total area. The majority of these lands (115,384 ha) are located in provincially protected areas. There are about 1,900 hectares of protected coastal areas, 78,776 hectares of protected stream systems, 27,676 hectares of protected lakes and 3,477 hectares of protected wetlands.

Species and Vegetation Community Targets:

One species target has been recorded in watershed 2CE: the primary target Extra-striped Snaketail (*Ophiogomphus anomalus*) which is known from a protected area. There are no documented occurrences of rare vegetation communities in this watershed.

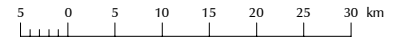
Conservation Blueprint:

The Conservation Blueprint includes 3,060 hectares of coastal areas, 143,414 hectares of stream systems, 28,266 hectares of lakes and 4,516 hectares of wetlands. The Conservation Blueprint also includes the known species occurrence for the primary target Extra-striped Snaketail.

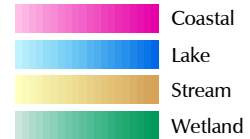


Great Lakes Conservation Blueprint for Biodiversity

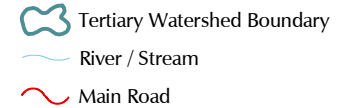
SPANISH WATERSHED 2CE



Aquatic Ecological Systems



Other Information



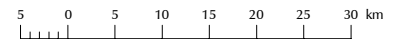
Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

SPANISH WATERSHED 2CE

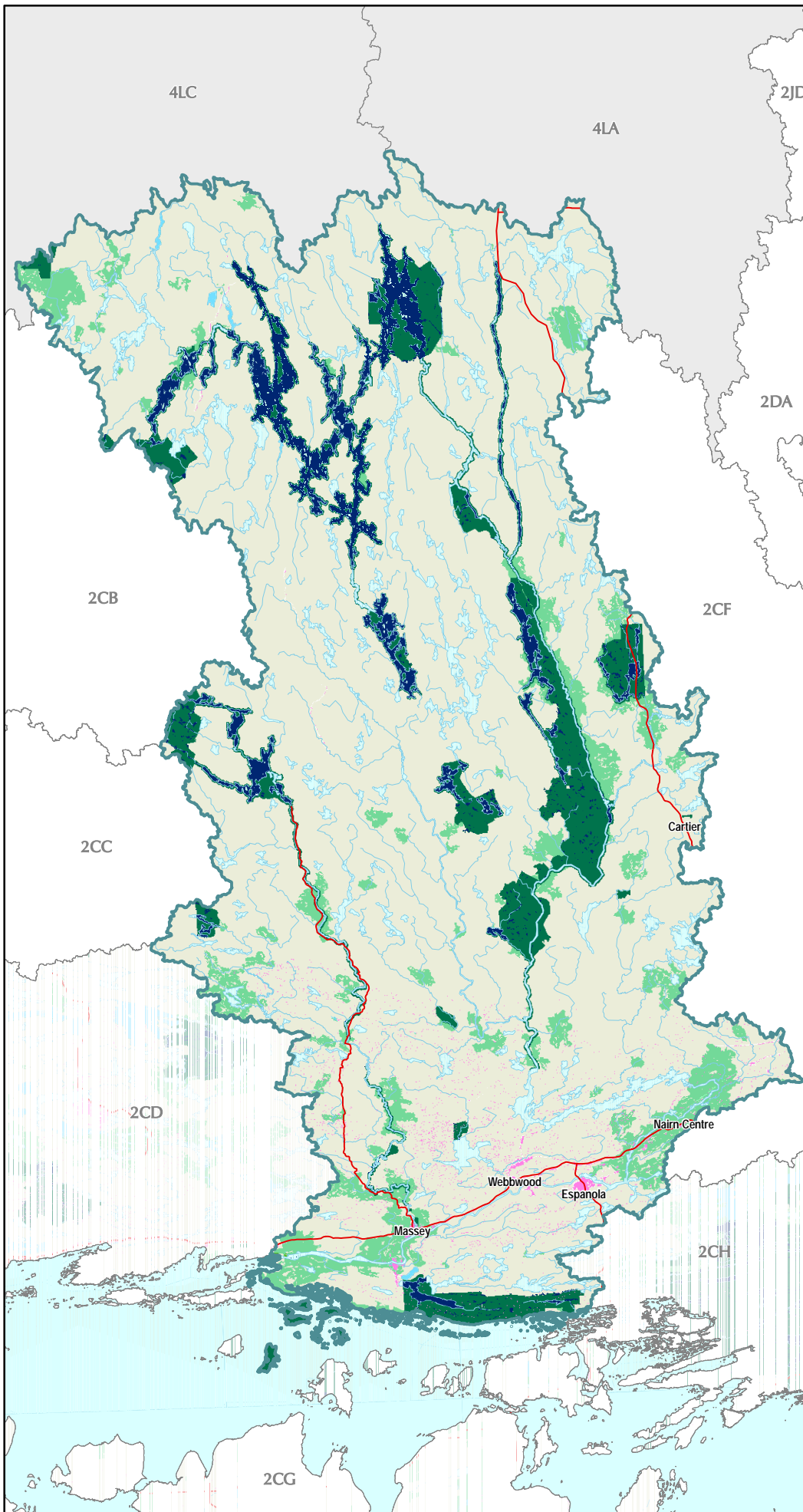


Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Documented extant significant species information for tertiary watershed 2CE

Number of pops in 2CE	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in Parks and PAs	% of pops in Parks and PAs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species														
1	<i>Ophiogomphus anomalus</i>	Extra-striped Snaketail	G3	S2			GRank	1	100	1	100	1	100	4

Ecological systems summary for tertiary watershed 2CE

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	5565.38	0.59	1900.00	34.14	3060.00	54.98	3060.00	54.98
Stream Systems	800408.81	84.26	78776.56	9.84	143414.13	17.92	142471.31	17.80
Lake Systems	84297.13	8.87	27676.31	32.83	28268.06	33.53	28268.06	33.53
Wetland Systems	51943.88	5.47	3477.94	6.70	4516.69	8.70	4516.69	8.70
Tertiary watershed	949916.75	100.00	115449.19	12.15	182875.56	19.25	181932.75	19.15

Ecological systems details for tertiary watershed 2CE

System Integer	# of patches in 2CE	Total area (ha) in 2CE	% of total area in 2CE	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																
Coastal Systems																
101	10	78.00	0.01	10	76.81	98.48			0.00	10	76.81	98.48	13	77.44	77.44	99.28
104	73	214.56	0.02	34	72.31	33.70			0.00	34	72.31	33.70	41	72.44	72.44	33.76
105	8	53.00	0.01	8	45.00	84.91			0.00	8	45.00	84.91	14	52.69	52.69	99.41
108	29	91.75	0.01	14	43.13	47.00			0.00	14	43.13	47.00	15	43.13	43.13	47.00
113	27	116.88	0.01	15	39.56	33.85			0.00	16	41.88	35.83	26	46.44	46.44	39.73
115	7	72.25	0.01	7	26.13	36.16			0.00	9	30.69	42.47	8	36.63	36.63	50.69
116	50	114.06	0.01	12	23.69	20.77			0.00	12	23.69	20.77	14	25.13	25.13	22.03
125	47	3191.75	0.34	29	1222.00	38.29			0.00	33	1239.69	38.84	41	1746.38	1746.38	54.72
126	3	176.19	0.02			0.00			0.00			0.00	3	176.13	176.13	99.96
127	29	1067.81	0.11	15	219.38	20.54			0.00	18	229.13	21.46	24	685.94	685.94	64.24
199	67	389.13	0.04	36	96.69	24.85			0.00	38	97.69	25.10	54	97.69	97.69	25.10

System Integer	# of patches in 2CE	Total area (ha) in 2CE	% of total area in 2CE	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Stream Systems																
201	7	227.06	0.02	3	119.81	52.77			0.00	3	119.81	52.77	3	157.44	157.44	69.34
202	2	505.63	0.05			0.00			0.00			0.00	2	505.63	505.63	100.00
203	122	11267.13	1.19	9	205.38	1.82			0.00	9	205.38	1.82	17	2258.13	2258.13	20.04
204	14	1110.19	0.12	2	74.44	6.70			0.00	2	74.44	6.70	6	619.00	619.00	55.76
205	119	10315.00	1.09	5	12.00	0.12			0.00	5	12.00	0.12	16	1390.63	1390.63	13.48
206	28	5062.19	0.53	2	5.38	0.11			0.00	2	5.38	0.11	6	514.19	514.19	10.16
207	6	683.81	0.07	2	12.19	1.78			0.00	2	12.19	1.78	5	606.38	606.38	88.68
208	234	18515.38	1.95	25	1066.94	5.76			0.00	25	1066.94	5.76	27	3215.25	3215.25	17.37
209	165	12738.75	1.34	24	1974.25	15.50			0.00	24	1974.25	15.50	29	2810.38	2810.38	22.06
210	78	16638.56	1.75	7	1311.31	7.88	2	15.38	0.09	7	1314.56	7.90	15	6822.63	6822.63	41.00
211	316	41024.44	4.32	23	554.13	1.35			0.00	23	554.13	1.35	34	1091.56	1091.56	2.66
212	47	3750.19	0.39	11	1045.44	27.88			0.00	11	1045.44	27.88	22	1046.69	1046.69	27.91
213	1180	200048.38	21.06	145	12469.00	6.23			0.00	146	12472.50	6.23	232	16485.44	16485.44	8.24
214	806	136691.00	14.39	147	15013.56	10.98			0.00	148	15013.75	10.98	245	16223.00	16223.00	11.87
215	38	8075.06	0.85	3	3.25	0.04			0.00	3	3.25	0.04	8	870.38	870.38	10.78
216	49	11417.44	1.20	4	283.25	2.48			0.00	4	283.25	2.48	13	1582.50	1582.50	13.86
217	337	51369.88	5.41	28	3148.44	6.13			0.00	28	3148.44	6.13	42	4550.13	4550.13	8.86
218	170	28111.00	2.96	11	980.56	3.49			0.00	11	980.56	3.49	18	3664.75	3664.75	13.04
219	12	4114.25	0.43	5	400.50	9.73			0.00	5	400.50	9.73	8	2231.06	2231.06	54.23
220	34	10207.88	1.07	11	570.94	5.59			0.00	11	570.94	5.59	19	1687.44	1687.44	16.53
221	421	117541.44	12.37	178	21640.75	18.41			0.00	178	21640.75	18.41	355	23699.44	23699.44	20.16
222	21	241.25	0.03	11	1.06	0.44			0.00	11	1.06	0.44	26	241.31	241.31	100
223	4	64.88	0.01	3	9.25	14.26			0.00	3	9.25	14.26	4	64.88	64.88	100
224	9	752.19	0.08	3	6.19	0.82			0.00	3	6.19	0.82	4	741.94	741.94	98.64
225	2	85.00	0.01			0.00			0.00			0.00	5	85.00	85.00	100
226	96	11897.69	1.25	68	1064.50	8.95			0.00	68	1064.50	8.95	96	1976.94	1976.94	16.62
227	149	22307.63	2.35	51	2178.38	9.77			0.00	51	2178.38	9.77	66	2996.81	2996.81	13.43
228	23	1935.69	0.20	2	52.50	2.71			0.00	2	52.50	2.71	10	1480.38	1480.38	76.48
229	1	2.94	0.00			0.00			0.00			0.00				0.00
230	6	677.06	0.07	4	20.44	3.02			0.00	4	20.44	3.02	8	613.94	598.94	90.68
231	19	2157.44	0.23	13	192.94	8.94			0.00	13	192.94	8.94	13	944.69	943.56	43.79
233	17	5987.19	0.63	11	834.06	13.93			0.00	11	834.06	13.93	16	3556.69	3556.69	59.40
235	11	1070.00	0.11	5	172.44	16.12			0.00	5	172.44	16.12	5	701.94	645.13	65.60
236	1	0.63	0.00			0.00			0.00			0.00				0.00
238	7	348.13	0.04	1	3.69	1.06			0.00	1	3.69	1.06	3	276.31	223.94	79.37
240	2	42.75	0.00	1	30.31	70.91			0.00	1	30.31	70.91	1	30.31	30.31	70.91

System Integer	# of patches in 2CE	Total area (ha) in 2CE	% of total area in 2CE	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Stream Systems continued																
241	9	2969.94	0.31	10	1167.69	39.32			0.00	10	1167.69	39.32	6	2290.31	2290.31	77.12
242	4	506.88	0.05	2	1.13	0.22			0.00	2	1.13	0.22	4	506.75	506.75	99.98
243	6	233.31	0.02	2	5.56	2.38			0.00	2	5.56	2.38	6	233.00	233.00	99.87
244	6	895.13	0.09	8	359.31	40.14			0.00	8	359.31	40.14	8	793.38	793.38	88.63
245	1	49.38	0.01	2	4.50	9.11			0.00	2	4.50	9.11	3	4.50	4.50	9.11
246	23	7500.69	0.79	5	84.56	1.13			0.00	5	84.56	1.13	14	7499.00	7006.69	99.98
247	24	3503.50	0.37	3	151.00	4.31			0.00	3	151.00	4.31	11	3446.38	3287.19	98.37
248	18	2954.00	0.31	8	1189.50	40.27			0.00	8	1189.50	40.27	11	1517.56	1517.56	51.37
249	1	56.13	0.01	3	11.63	20.71			0.00	3	11.63	20.71	1	56.13	56.13	100
250	131	36802.75	3.87	39	9663.00	26.26			0.00	39	9663.00	26.26	83	14188.25	14188.25	38.55
251	4	471.06	0.05	4	471.06	100.00			0.00	4	471.06	100.00	6	471.06	471.06	100
253	11	179.69	0.02	7	16.69	9.29			0.00	7	16.69	9.29	8	121.81	121.50	67.79
254	19	6418.63	0.68	2	47.69	0.74			0.00	2	58.50	0.91	26	6414.63	6248.94	99.94
Lake Systems																
309	206	19989.81	2.10	92	12416.44	62.11			0.00	92	12416.44	62.11	212	12416.44	12416.44	62.11
315	98	11440.69	1.20	30	4781.19	41.79			0.00	30	4781.19	41.79	62	4781.19	4781.19	41.79
317	6	408.69	0.04	5	291.81	71.40			0.00	5	291.81	71.40	16	408.69	408.69	100.00
325	109	212.81	0.02	15	3.31	1.56			0.00	15	3.31	1.56	19	5.38	5.38	2.53
326	737	2750.44	0.29	48	342.06	12.44			0.00	48	342.06	12.44	83	625.75	625.75	22.75
327	11	61.13	0.01			0.00			0.00			0.00	6	18.75	18.75	30.67
328	202	255.56	0.03	28	15.13	5.92			0.00	28	15.13	5.92	30	15.50	15.50	6.07
329	340	1205.88	0.13	27	95.25	7.90			0.00	27	95.25	7.90	43	228.44	228.44	18.94
330	185	1226.56	0.13	10	136.69	11.14			0.00	10	136.69	11.14	18	138.69	138.69	11.31
331	725	1197.13	0.13	44	44.56	3.72			0.00	44	44.56	3.72	51	45.63	45.63	3.81
332	18	25.19	0.00	2	2.00	7.94			0.00	2	2.00	7.94	2	2.00	2.00	7.94
333	5014	38062.19	4.01	470	9047.69	23.77			0.00	470	9047.69	23.77	735	9077.25	9077.25	23.85
334	641	681.69	0.07	57	39.69	5.82			0.00	57	39.69	5.82	65	41.44	41.44	6.08
335	123	219.63	0.02	10	13.63	6.20			0.00	10	13.63	6.20	12	14.25	14.25	6.49
336	3733	6559.63	0.69	268	446.88	6.81			0.00	268	446.88	6.81	298	448.69	448.69	6.84
Wetland Systems																
407	26	105.13	0.01	1	0.69	0.65			0.00	1	0.69	0.65	7	43.69	43.69	41.56
408	38	319.00	0.03	2	12.63	3.96			0.00	2	12.63	3.96	9	86.25	86.25	27.04
409	1684	5871.38	0.62	138	325.31	5.54			0.00	138	325.31	5.54	154	829.56	829.56	14.13
410	1028	6252.13	0.66	71	171.44	2.74			0.00	71	171.44	2.74	85	589.38	589.38	9.43

System Integer	# of patches in 2CE	Total area (ha) in 2CE	% of total area in 2CE	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Non-Target Ecological Systems																
Wetland Systems																
411	6502	14825.56	1.56	692	1293.69	8.73			0.00	692	1293.69	8.73	799	1293.63	1293.63	8.73
412	5314	24570.69	2.59	552	1674.19	6.81			0.00	552	1674.19	6.81	696	1674.19	1674.19	6.81
Unclassified Ecological Systems																
2	26	882.69	0.09	2	128.25	14.53			0.00	2	128.25	14.53	3	128.25	128.25	14.53
3	1	0.13	0.00			0.00			0.00			0.00				0.00
5	582	1852.00	0.19	309	1250.56	67.52			0.00	317	1262.63	68.18	374	1260.88	1260.88	68.08
6	3952	5849.56	0.62	1217	2355.75	40.27	3	0.44	0.01	1217	2355.75	40.27	1369	2355.81	2355.81	40.27

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Onaping

Tertiary Watershed 2CF

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area: 437,599 hectares (1,081,307 acres)

Land Ownership: Crown Land ~ 55 %
Private Land ~ 40%
First Nations Lands ~5 %

Planning Authority: 55% City of Greater Sudbury
45% Sudbury District

General Description:

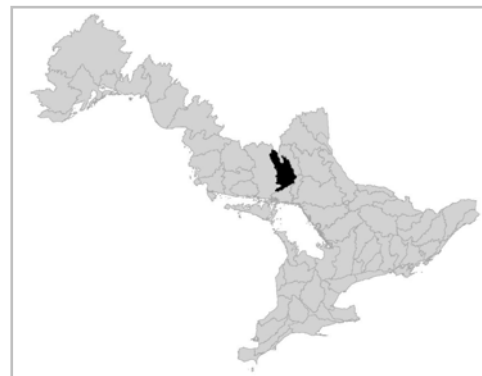
Tertiary watershed 2CF drains into Lake Huron, but does not contain any stretch of Great Lakes coastline. There are approximately 366,022 hectares of stream systems, 41,680 hectares of lakes and 27,128 hectares of wetlands. No major rivers are present. Mixed forests and sparse deciduous forests are the dominant land cover of the area. Some sparse coniferous forests also occur. Treed bogs are the major wetland type in the watershed.

Land Use:

The city of Sudbury, as well as many smaller settlements, is located in this watershed. A large area affected by air pollution and mine tailings surrounds the city of Sudbury. Some pasture land is also located close to the city. Historically, forestry has not been a significant activity, but forestry operations are currently growing in the region.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2CF is 20,374 hectares, constituting approximately 4.7% of the watershed's total area. The majority of these lands (18,731 ha) are located in provincially protected areas. There are approximately 9,762 hectares of



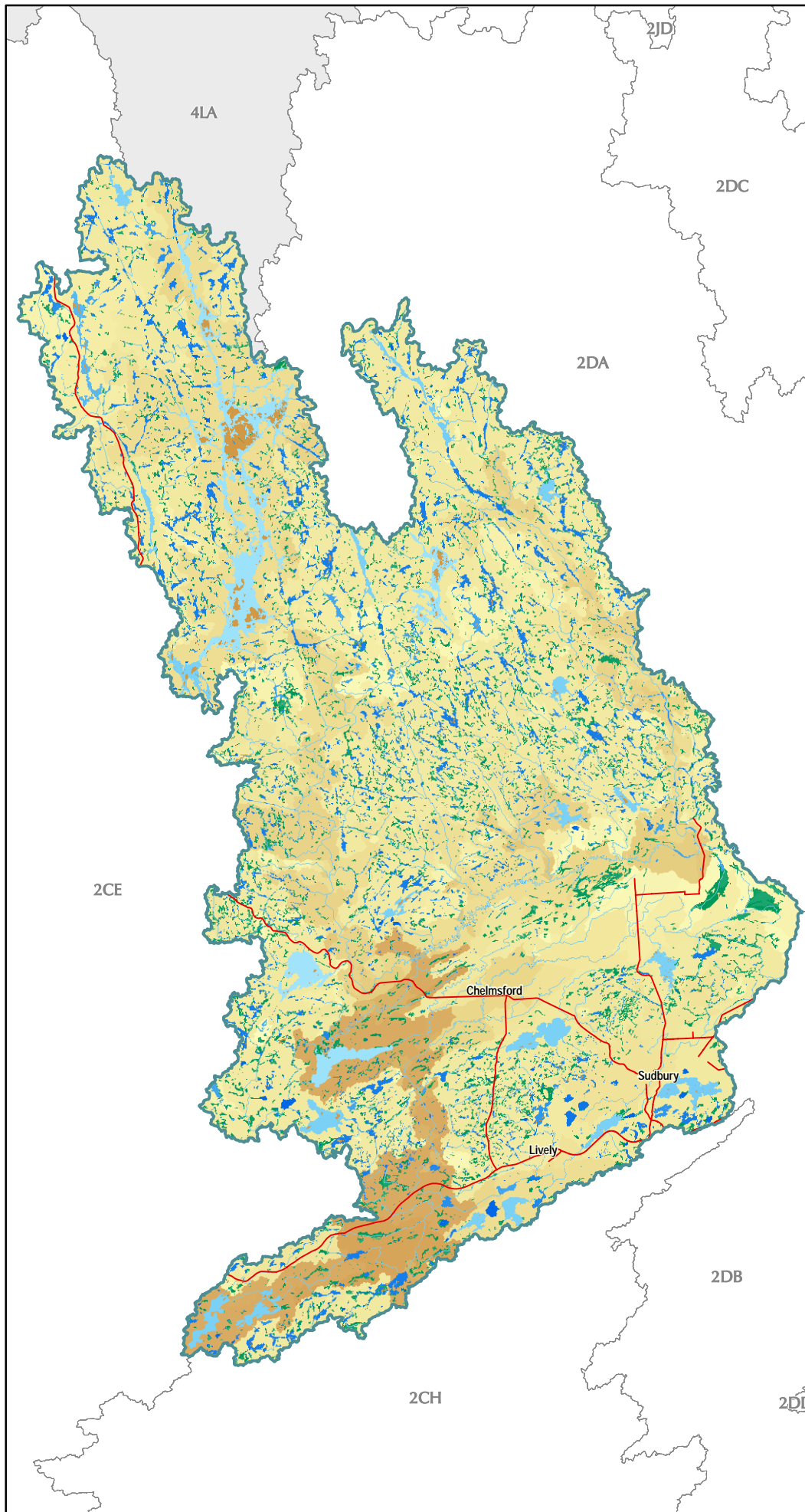
protected stream systems, 8,233 hectares of protected lakes and 561 hectares of protected wetlands.

Species and Vegetation Community Targets:

Wood Turtle (*Glyptemys insculpta*), a secondary target, is the only species target known from this watershed. The occurrences of this species are not within protected areas. There are no rare vegetation communities documented for this watershed.

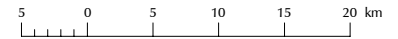
Conservation Blueprint:

The Conservation Blueprint includes 56,000 hectares of stream systems, 14,401 hectares of lakes and 1,012 hectares of wetlands. The Conservation Blueprint also includes one of the Wood Turtle populations.

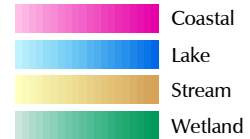


Great Lakes Conservation Blueprint for Biodiversity

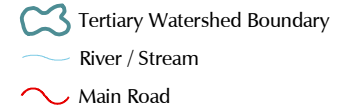
ONAPING WATERSHED 2CF



Aquatic Ecological Systems



Other Information



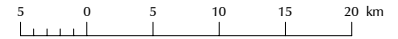
Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

ONAPING WATERSHED 2CF

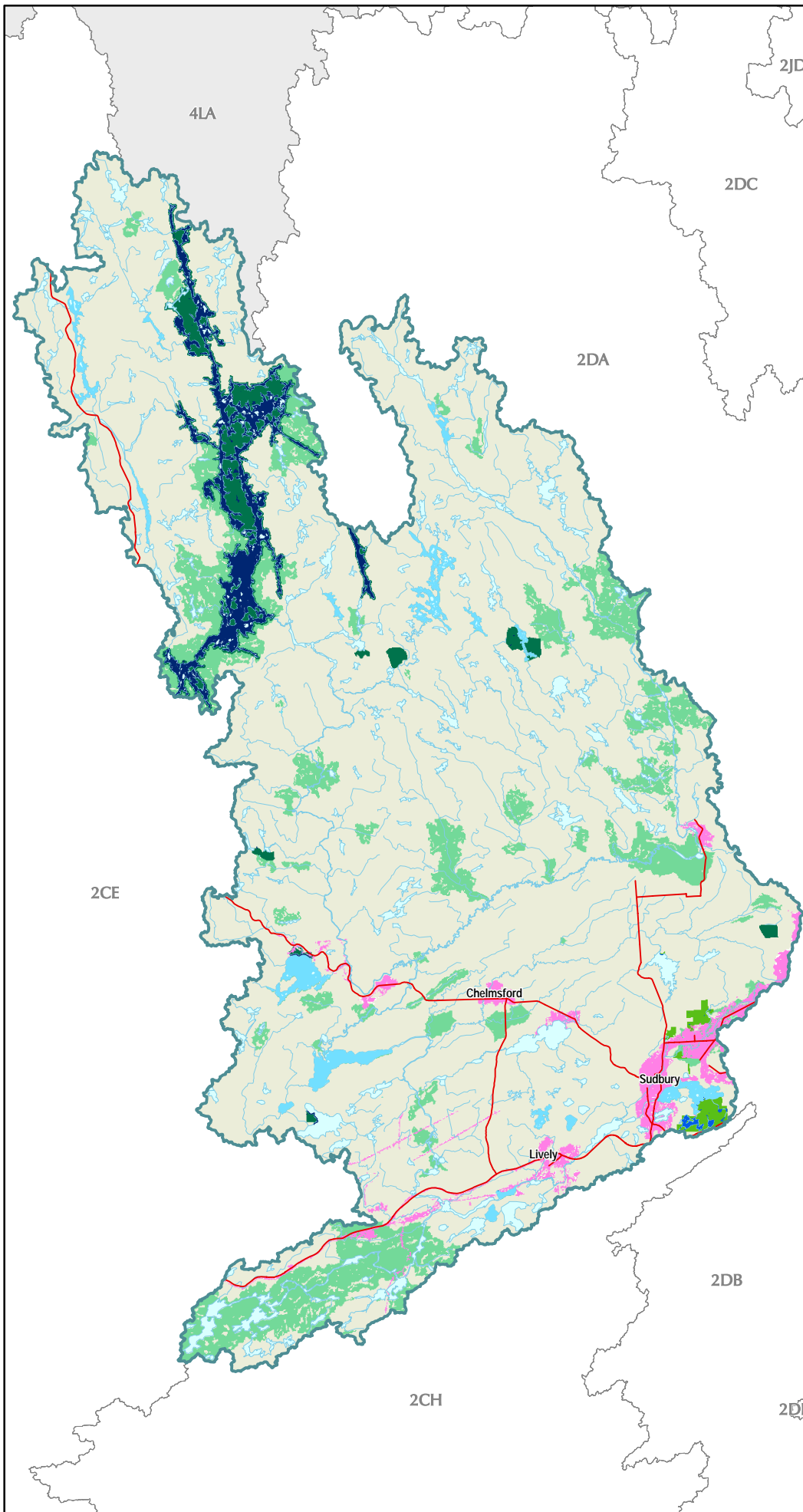


Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Documented extant significant species information for tertiary watershed 2CF

Number of pops in 2CF	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species												
2	<i>Glyptemys insculpta</i>	Wood Turtle	G4	S2	SC	END	SAR	0	0	1	50	secondary

Ecological systems summary for tertiary watershed 2CF

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stream Systems	366022.00	83.64	9762.63	2.67	53476.31	14.61	51539.44	14.08
Lake Systems	41680.81	9.52	8233.00	19.75	14401.50	34.55	14401.50	34.55
Wetland Systems	27128.44	6.20	561.56	2.07	1012.19	3.73	1012.19	3.73
Tertiary watershed	437599.00	100.00	20374.13	4.66	73231.44	16.73	71294.56	16.29

Ecological systems details for tertiary watershed 2CF

System Integer	# of patches in 2CF	Total area (ha) in 2CF	% of total area in 2CF	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in CA lands	Total area (ha) in CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																
Stream Systems																
201	4	473.50	0.11			0.00			0.00			0.00	5	473.06	473.06	99.91
203	63	4544.13	1.04	2	90.06	1.98			0.00	2	90.06	1.98	10	244.19	244.19	5.37
204	1	7.06	0.00			0.00			0.00			0.00				0.00
205	38	4332.00	0.99			0.00			0.00			0.00	7	539.56	539.56	12.46
206	22	3298.06	0.75	1	70.19	2.13			0.00	1	70.19	2.13	2	367.31	367.31	11.14
207	3	50.69	0.01			0.00			0.00			0.00	3	50.69	50.69	100.00
208	130	9055.44	2.07	2	33.88	0.37			0.00	2	33.88	0.37	40	419.06	419.06	4.63
209	67	6790.50	1.55			0.00			0.00			0.00	10	1200.88	1200.88	17.68
210	23	1713.25	0.39			0.00			0.00			0.00	6	1.13	1.13	0.07
211	103	16939.88	3.87	4	451.50	2.67			0.00	4	451.50	2.67	11	1156.63	1156.63	6.83
212	24	2295.31	0.52			0.00			0.00			0.00	4	651.56	651.56	28.39
213	708	94464.81	21.59	24	405.31	0.43	1	10.4375	0.01	25	415.75	0.44	62	1436.94	1436.94	1.52
214	475	63859.31	14.59	30	1095.31	1.72	17	729.9375	1.14	47	1825.25	2.86	92	3232.38	3232.38	5.06

System Integer	# of patches in 2CF	Total area (ha) in 2CF	% of total area in 2CF	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in CA lands	Total area (ha) in CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Stream Systems continued																
215	6	2324.63	0.53	3	2.56	0.11	8	71.125	3.06	8	71.13	3.06	6	2323.81	738.31	99.97
216	15	4597.50	1.05	2	7.88	0.17	3	27.3125	0.59	6	29.88	0.65	8	1726.69	1726.69	37.56
217	252	22239.69	5.08			0.00	4	324.0625	1.46	6	331.94	1.49	22	1404.00	1404.00	6.31
218	90	11794.56	2.70			0.00	5	75.625	0.64	5	75.63	0.64	42	604.19	604.19	5.12
219	14	1359.13	0.31			0.00			0.00			0.00	4	790.00	790.00	58.13
220	15	2961.38	0.68			0.00			0.00			0.00	10	2041.06	2041.06	68.92
221	204	49178.38	11.24	82	6066.56	12.34	1	1.6875	0.00	83	6068.25	12.34	165	14689.81	14689.81	29.87
222	1	0.06	0.00			0.00			0.00			0.00	1	0.06	0.06	100.00
224	2	319.13	0.07			0.00			0.00			0.00	1	319.00	319.00	99.96
225	1	1.50	0.00			0.00			0.00			0.00				0.00
226	60	11699.81	2.67	2	110.06	0.94			0.00	2	110.06	0.94				0.00
227	65	17452.63	3.99	6	183.63	1.05			0.00	6	183.63	1.05	17	2917.75	2917.75	16.72
228	4	125.56	0.03			0.00			0.00			0.00	3	125.50	125.50	99.95
230	7	122.44	0.03			0.00			0.00			0.00	4	47.25	47.25	38.59
231	12	3327.56	0.76			0.00			0.00			0.00	4	2629.19	2605.69	79.01
233	17	829.50	0.19	1	4.81	0.58			0.00	1	4.81	0.58	4	253.13	253.13	30.52
234	1	22.13	0.01			0.00			0.00			0.00				0.00
235	8	948.00	0.22			0.00			0.00			0.00	4	718.50	714.81	75.79
238	1	48.81	0.01			0.00			0.00			0.00				0.00
241	3	444.00	0.10			0.00			0.00			0.00	7	444.00	415.19	100.00
242	2	14.50	0.00			0.00			0.00			0.00				0.00
244	2	6.94	0.00			0.00			0.00			0.00				0.00
246	6	8.38	0.00			0.00			0.00			0.00				0.00
247	14	2275.81	0.52			0.00			0.00			0.00	7	789.06	779.50	34.67
248	9	1305.81	0.30			0.00			0.00			0.00	6	1094.13	1094.13	83.79
250	93	19109.75	4.37			0.00			0.00			0.00	15	5228.81	5221.13	27.36
252	9	149.69	0.03			0.00			0.00			0.00	6	88.63	88.63	59.21
253	3	235.25	0.05			0.00			0.00			0.00	2	234.94	234.94	99.87
254	29	5264.63	1.20			0.00			0.00			0.00	18	5233.44	4955.31	99.41
Lake Systems																
306	2	1123.19	0.26	1	23.06	2.05			0.00	1	23.06	2.05	4	1123.13	1123.13	99.99
309	23	8667.00	1.98	19	6520.56	75.23			0.00	19	6520.56	75.23	105	8647.94	8647.94	99.78
315	41	7059.88	1.61	9	899.19	12.74	7	0.5	0.01	16	899.69	12.74	28	1124.50	1124.50	15.93
317	2	1010.81	0.23			0.00	5	0.81	0.08	5	0.81	0.08	2	1010.81	1010.81	100.00
322	3	586.31	0.13			0.00			0.00			0.00	4	586.00	586.00	99.95

System Integer	# of patches in 2CF	Total area (ha) in 2CF	% of total area in 2CF	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in CA lands	Total area (ha) in CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Lake Systems continued																
325	161	176.63	0.04			0.00	1	0.44	0.25	1	0.44	0.25	9	4.19	4.19	2.37
326	328	1719.81	0.39	1	0.44	0.03	1	0.06	0.00	2	0.50	0.03	9	357.31	357.31	20.78
327	8	17.88	0.00			0.00			0.00			0.00				0.00
328	149	89.00	0.02	1	0.06	0.07			0.00	1	0.06	0.07	4	1.94	1.94	2.18
329	437	1226.31	0.28	8	4.88	0.40	1	6.88	0.56	9	11.75	0.96	17	190.81	190.81	15.56
330	101	586.63	0.13	2	3.25	0.55			0.00	2	3.25	0.55	4	9.00	9.00	1.53
331	238	377.19	0.09	2	2.25	0.60			0.00	2	2.25	0.60	5	12.38	12.38	3.28
332	14	5.50	0.00	3	0.38	6.82			0.00	3	0.38	6.82	3	0.38	0.38	6.82
333	3382	15710.81	3.59	26	530.19	3.37	13	142.63	0.91	39	672.81	4.28	62	902.94	902.94	5.75
334	591	658.13	0.15	9	3.81	0.58	1	0.44	0.07	10	4.25	0.65	12	105.63	105.63	16.05
335	49	36.44	0.01	5	0.44	1.20			0.00	5	0.44	1.20	6	0.44	0.44	1.20
336	2103	2629.31	0.60	25	50.00	1.90	12	42.75	1.63	37	92.75	3.53	45	324.13	324.13	12.33
Wetland Systems																
409	736	1824.75	0.42	18	34.81	1.91			0.00	18	34.81	1.91	20	66.88	66.88	3.66
410	443	2326.44	0.53	15	40.56	1.74			0.00	15	40.56	1.74	22	459.13	459.13	19.74
Non-Target Ecological Systems																
Wetland Systems																
411	3319	7844.75	1.79	123	165.75	2.11	5	57.69	0.74	128	223.44	2.85	154	223.44	223.44	2.85
412	2617	15132.50	3.46	74	113.19	0.75	20	149.56	0.99	94	262.75	1.74	113	262.75	262.75	1.74
Unclassified Ecological Systems																
2	17	30.94	0.01	1	0.69	2.22			0.00	1	0.69	2.22	1	0.69	0.69	2.22
5	5	0.31	0.00			0.00			0.00			0.00				0.00
6	2397	2767.44	0.63	365	1816.50	65.64	3	0.4375	0.02	368	1816.94	65.65	428	1816.94	1816.94	65.65

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All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Manitoulin Islands

Tertiary Watershed 2CG

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area: 331,347 hectares (818,758 acres)

Land Ownership: Crown Land ~ 5 %
Private Land ~ 85%
First Nations Lands ~10 %

Planning Authority: 100% Manitoulin District

General Description:

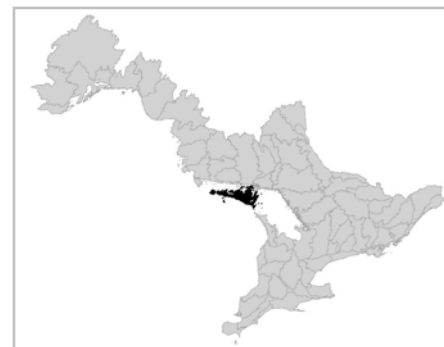
Tertiary watershed 2CG drains into Lake Huron. There are approximately 87,314 hectares of coastal areas, 205,348 hectares of stream systems, 31,630 hectares of lakes and 1,491 hectares of wetlands. This watershed consists of Manitoulin Island and the many smaller islands surrounding it. As such, the entire perimeter of the watershed consists of Lake Huron shoreline. Other large Lake Huron islands in the watershed are La Cloche, Cockburn, Great Duck and Clapperton Islands. Many large bays and lakes are present. Among the largest waterbodies are Campbell Bay, Manitowaning Bay, Lake Manitou, and Lake Kagawong. A significant portion of the watershed consists of alvar. Mixed forests, sparse deciduous and coniferous forests, and dense deciduous forest are the remainder of the land cover.

Land Use:

Most of the human-modified land cover on Manitoulin Island is pasture and abandoned fields. Few developed lands are present. Notable settlements include Gore Bay and Little Current.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2CG is 13,368 hectares, constituting approximately 4% of the watershed's total area. Nearly half of these protected lands (6,348 ha) are provincially



protected areas. There are about 9,264 hectares of protected coastal areas, 3,582 hectares of protected stream systems, 124 hectares of protected lakes and 92 hectares of protected wetlands.

Species and Vegetation Community Targets:

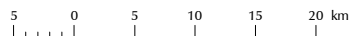
Seven species targets have known occurrences in 2CG. The primary targets are Ram's-head Lady's-slipper (*Cypripedium arietinum*), Hill's Pondweed (*Potamogeton hillii*) and Houghton's Goldenrod (*Soildago houghtonii*). Secondary targets include Gattinger's Agalinis (*Agalinis gattingeri*), Black Tern (*Chlidonias niger*), Bald Eagle (*Haliaeetus leucocephalus*) and Least Bittern (*Ixobrychus exilis*). There are populations of Black Tern and Ram's-head Lady's-slipper in protected areas. Four target vegetation communities also occur in this watershed. All of these communities have been documented in protected areas.

Conservation Blueprint:

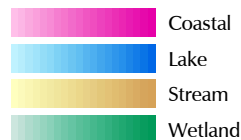
The Conservation Blueprint includes 13,618 hectares of coastal areas, 29,570 hectares of stream systems, 26,425 hectares of lakes and 177 hectares of wetlands. The Conservation Blueprint also includes many of the known occurrences of Ram's-head Lady's-slipper, Hill's Pondweed and Houghton's Goldenrod. It also includes all of the known occurrences of the target vegetation communities in the watershed.

Great Lakes Conservation Blueprint for Biodiversity

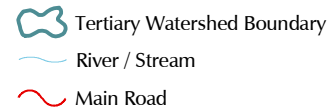
MANITOULIN ISLANDS WATERSHED 2CG



Aquatic Ecological Systems



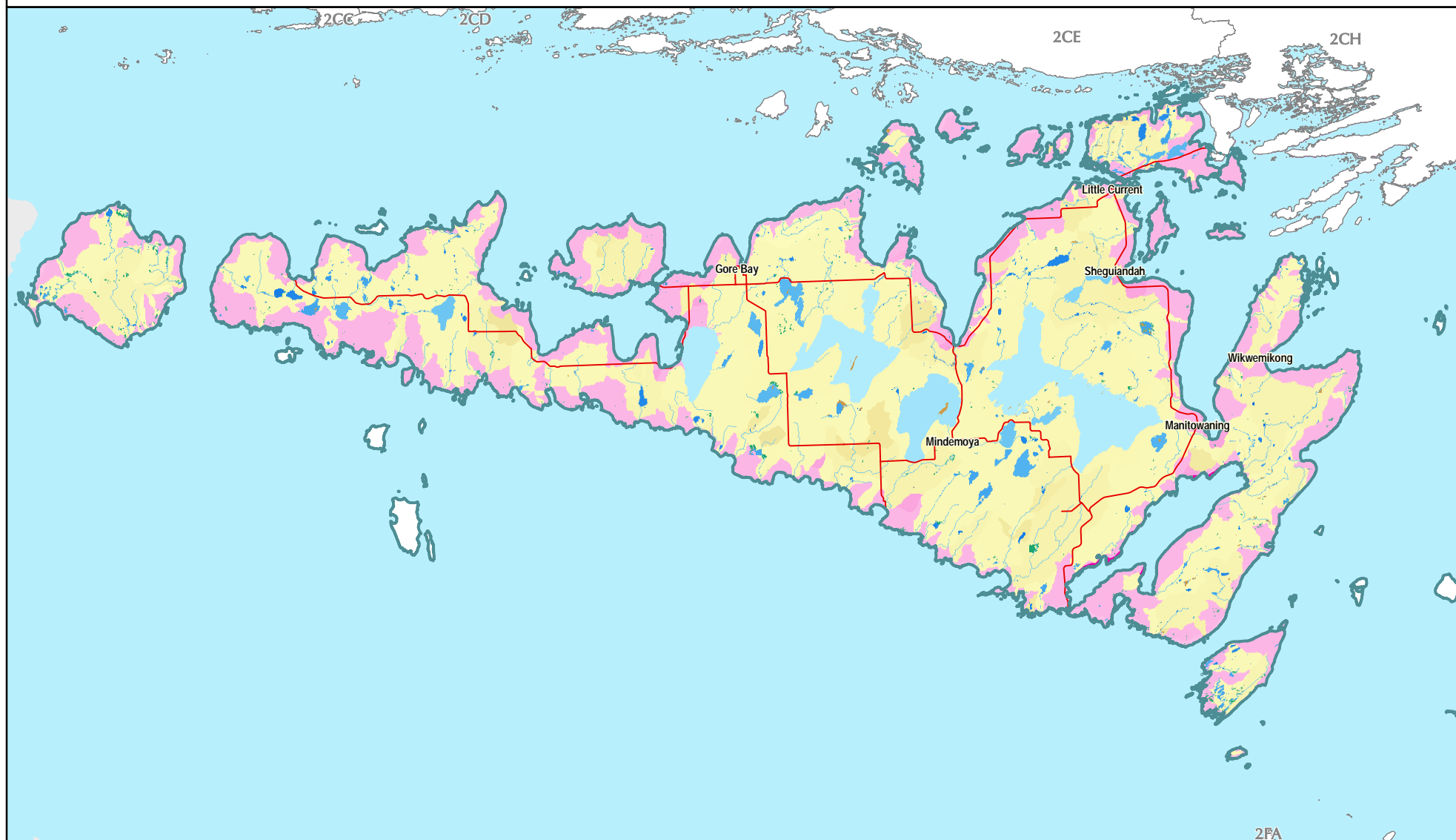
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

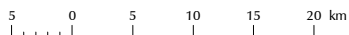
For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

MANATOULIN ISLANDS WATERSHED 2CG



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

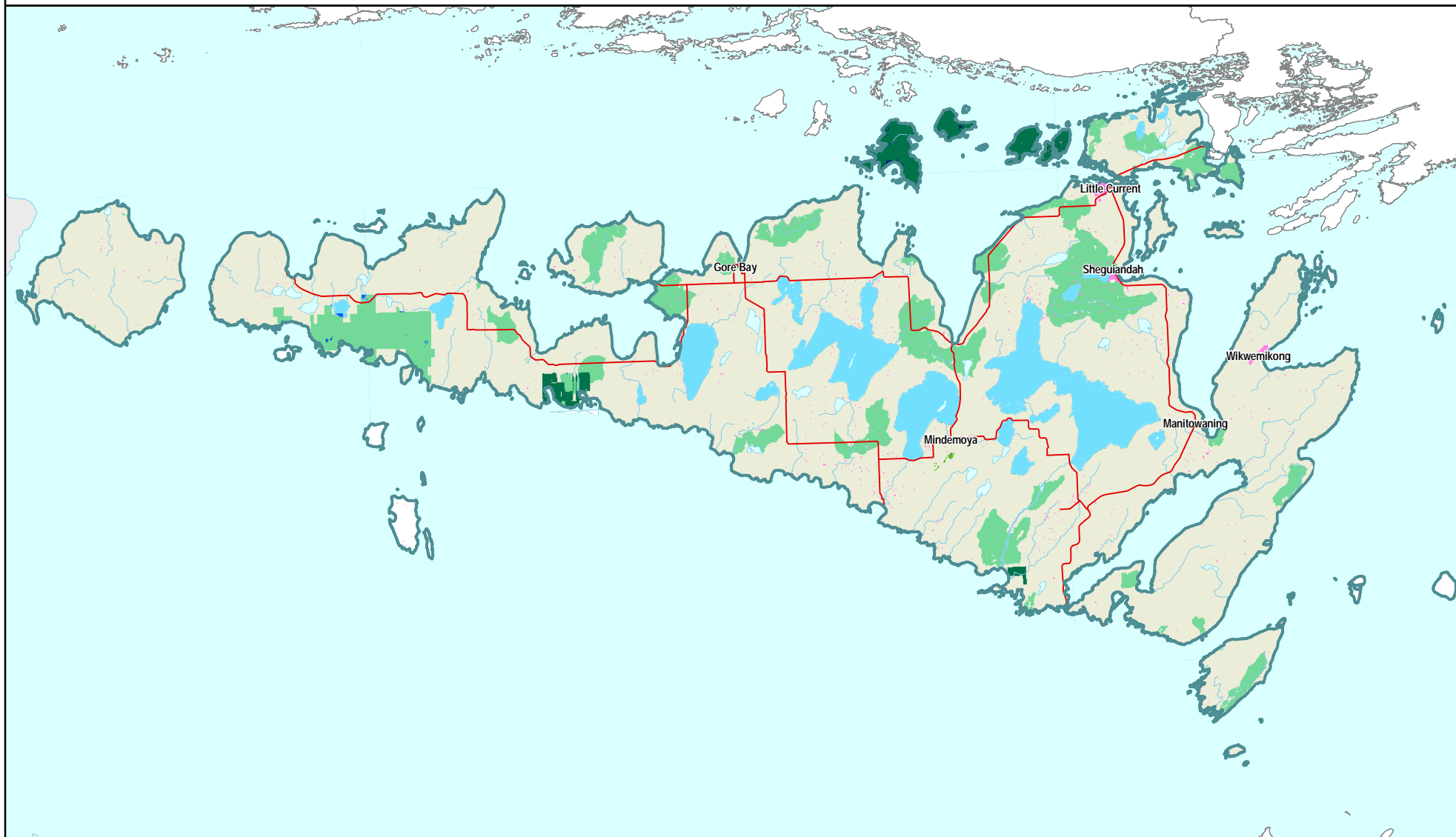
- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Documented extant vegetation communities and significant species information for tertiary watershed 2CG

# of pops in 2CG	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in Parks and PAs	% of pops in Parks and PAs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species														
2	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	0	0	0	0	0	secondary
4	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S4B,SZN	NAR	END-R	SAR	0	0	0	0	0	0	secondary
2	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	0	1	50	2	100	secondary
9	<i>Solidago houghtonii</i>	Houghton's Goldenrod	G3	S2	SC		GRank SAR	0	0	0	0	4	44	4
3	<i>Agalinis gattingeri</i>	Gattinger's Agalinis	G4	S2	END	END	SAR	0	0	0	0	1	33	secondary
7	<i>Cypripedium arietinum</i>	Ram's-head Lady's-slipper	G3	S3			GRank	0	0	3	43	4	57	2
1	<i>Potamogeton hillii</i>	Hill's Pondweed	G3	S2	SC	THR	GRank SAR	0	0	0	0	1	100	4
Communities														
8	Graminoid Coastal Meadow Marsh Type		G2?	S2			GRank	4	50	5	63	8	100	all viable
2	Shrubby Cinquefoil Coastal Meadow Marsh Type		G2?	S1			GRank	1	50	1	50	2	100	all viable
2	Shrubby Cinquefoil Limestone Beach Type		G3G4	S2			GRank	0	0	1	50	2	100	all viable
3	Slender Sedge Graminoid Fen Type		G4G5	S5			high quality	2	67	3	100	3	100	secondary

Ecological systems summary for tertiary watershed 2CG

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	87314.38	26.35	9264.69	10.61	13618.19	15.60	13618.19	15.60
Stream Systems	205348.75	61.97	3582.75	1.74	29570.94	14.40	29507.50	14.37
Lake Systems	31630.88	9.55	124.00	0.39	26425.19	83.54	26425.19	83.54
Wetland Systems	1491.25	0.45	92.50	6.20	177.63	11.91	177.63	11.91
Tertiary watershed	331347.88	100.00	13368.25	4.03	70096.44	21.15	70033.00	21.14

Ecological systems details for tertiary watershed 2CG

System Integer	# of patches in 2CG	Total area (ha) in 2CG	% of total area in 2CG	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems													
Coastal Systems													
101	18	153.38	0.05	4	16.13	10.51	6	17.13	11.17	8	26.00	26.00	16.95
104	303	794.31	0.24	38	114.13	14.37	50	144.31	18.17	59	144.31	144.31	18.17
105	100	1082.56	0.33	6	10.63	0.98	8	15.31	1.41	13	24.75	24.75	2.29
106	2	14.75	0.00			0.00			0.00	2	14.75	14.75	100.00
108	491	2387.31	0.72	50	208.13	8.72	64	233.81	9.79	86	235.81	235.81	9.88
113	83	425.00	0.13	8	71.81	16.90	9	74.19	17.46	11	76.63	76.63	18.03
114	1	2.63	0.00			0.00			0.00	1	2.63	2.63	100.00
116	269	704.44	0.21	34	87.19	12.38	41	94.19	13.37	56	95.44	95.44	13.55
117	2	2.00	0.00			0.00			0.00	3	2.06	2.06	100
120	1	1.06	0.00			0.00			0.00	2	1.13	1.13	100
125	50	2740.88	0.83			0.00			0.00	3	694.38	694.38	25.33
126	8	1214.88	0.37			0.00			0.00	4	1008.94	1008.94	83.05
127	326	70464.69	21.27	34	3461.94	4.91	41	7885.88	11.19	59	10477.75	10477.75	14.87
199	593	6826.94	2.06	48	771.50	11.30	61	799.88	11.72	85	813.63	813.63	11.92
Stream Systems													
201	36	4201.44	1.27	2	12.50	0.30	2	12.50	0.30	6	1882.63	1882.63	44.81
202	6	177.50	0.05			0.00			0.00	3	31.56	31.56	17.78
203	88	104507.50	31.54	12	497.38	0.48	20	2506.81	2.40	26	4276.63	4276.63	4.09
204	1	77.13	0.02			0.00			0.00	1	77.13	39.19	100.00
205	35	35618.19	10.75	1	462.06	1.30	1	462.06	1.30	3	3082.69	3082.69	8.65
206	34	27031.63	8.16			0.00	1	344.38	1.27	10	2822.44	2822.44	10.44
208	13	23960.81	7.23	1	221.75	0.93	21	224.31	0.94	35	8868.00	8853.06	37.01
209	10	1234.06	0.37			0.00			0.00	5	1037.94	1027.38	84.11
210	3	1576.88	0.48			0.00			0.00	8	1576.88	1576.88	100.00
211	2	619.19	0.19			0.00			0.00	1	618.88	618.88	99.95
212	1	10.63	0.00			0.00			0.00				0.00
213	17	2820.19	0.85	1	32.69	1.16	1	32.69	1.16	6	1783.25	1783.25	63.23
214	5	465.38	0.14			0.00			0.00	4	464.88	464.88	99.89
215	2	70.69	0.02			0.00			0.00	2	70.69	70.69	100.00
216	1	1720.44	0.52			0.00			0.00	1	1720.44	1720.44	100.00
217	5	1257.13	0.38			0.00			0.00	4	1256.94	1256.94	99.99

System Integer	# of patches in 2CG	Total area (ha) in 2CG	% of total area in 2CG	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued													
Lake Systems													
302	13	18520.69	5.59			0.00			0.00	30	18519.25	18519.25	99.99
306	1	3810.75	1.15			0.00			0.00	1	3810.75	3810.75	100.00
314	1	225.94	0.07			0.00			0.00	1	225.94	225.94	100.00
315	1	265.81	0.08			0.00			0.00	1	265.81	265.81	100.00
317	1	289.50	0.09			0.00			0.00	2	289.50	289.50	100.00
319	2	906.69	0.27			0.00			0.00	2	906.69	906.69	100.00
322	6	1871.13	0.56			0.00	2	24.88	1.33	9	1257.06	1257.06	67.18
324	2	651.00	0.20			0.00			0.00	2	651.00	651.00	100.00
325	102	664.19	0.20	9	7.06	1.06	9	7.06	1.06	27	7.88	7.88	1.19
326	688	2092.38	0.63	6	40.00	1.91	22	65.31	3.12	41	70.19	70.19	3.35
327	6	4.94	0.00			0.00			0.00				0.00
328	234	317.19	0.10	16	6.00	1.89	17	6.19	1.95	22	10.00	10.00	3.15
329	2	3.00	0.00			0.00			0.00				0.00
330	5	89.69	0.03			0.00			0.00	4	89.25	89.25	99.51
331	605	1624.69	0.49	9	2.00	0.12	19	19.75	1.22	26	276.19	276.19	17.00
332	4	0.69	0.00			0.00			0.00				0.00
333	78	174.81	0.05			0.00			0.00	4	4.94	4.94	2.82
334	12	56.94	0.02			0.00			0.00	3	39.94	39.94	70.14
335	2	3.56	0.00			0.00			0.00				0.00
336	23	32.88	0.01			0.00			0.00				0.00
Wetland Systems													
401	3	3.75	0.00			0.00	3	3.31	88.33	3	3.31	3.31	88.33
402	3	14.88	0.00			0.00	3	14.63	98.32	3	14.63	14.63	98.32
405	4	6.00	0.00			0.00	4	5.50	91.67	4	5.50	5.50	91.67
406	3	9.44	0.00			0.00	3	8.56	90.73	4	8.56	8.56	90.73
407	17	48.38	0.01			0.00	3	10.81	22.35	4	10.81	10.81	22.35
408	4	10.19	0.00			0.00	3	8.31	81.60	3	8.31	8.31	81.60
409	442	858.81	0.26	11	16.94	1.97	26	33.63	3.92	34	43.50	43.50	5.07
410	97	539.81	0.16	4	6.25	1.16	5	7.75	1.44	11	83.00	83.00	15.38

System Integer	# of patches in 2CG	Total area (ha) in 2CG	% of total area in 2CG	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Non-Target Ecological Systems													
Coastal Systems													
121	3	5.69	0.00			0.00			0.00				0.00
122	2	2.13	0.00			0.00			0.00				0.00
124	41	52.25	0.02			0.00			0.00				0.00
Unclassified Ecological Systems													
1	20	439.50	0.13			0.00			0.00				0.00
3	46	24.44	0.01	1	0.25	1.02	2	0.81	3.32	5	0.81	0.81	3.32
5	1011	5123.50	1.55	104	289.38	5.65	113	289.94	5.66	119	289.94	289.94	5.66
6	303	439.13	0.13	5	12.63	2.88	7	14.38	3.27	12	14.56	14.56	3.32

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Killarney Channel

Tertiary Watershed 2CH

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area: 203,469 hectares (502,771 acres)

Land Ownership: Crown Land ~ 70 %
Private Land ~ 10%
First Nations Lands ~20 %

Planning Authority: 55% Sudbury
35% Manitoulin
10% Sudbury Region

General Description:

Tertiary watershed 2CH drains into the north shore of Georgian Bay on Lake Huron. There are approximately 15,659 hectares of coastal areas, 139,116 hectares of stream systems, 28,615 hectares of lakes and 14,765 hectares of wetlands. Lake Panache is the largest inland lake. The Lake Huron shoreline of this watershed includes many small bays, peninsulas and islands, such as McGregor Bay, Frazer Bay, George Island and Badgeley Island. The majority of the landcover of this watershed is mixed forest. Sparse coniferous and deciduous forests also occur, and treed bogs are scattered throughout.

Land Use:

This watershed is minimally impacted by human use. Very few settled lands are present. The town of Killarney is the major settlement in this watershed. Other communities include Whitefish Falls, Birch Island and McGregor Bay.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2CH is 80,689 hectares, constituting approximately 39.7% of the watershed's total area. The majority of these lands (80,677 hectares) are



located in provincially protected areas, primarily within Killarney Provincial Park. There are approximately 9,083 hectares of protected coastal areas, 55,569 hectares of protected stream systems, 9,243 hectares of protected lakes and 5,128 hectares of protected wetlands.

Species and Vegetation Community Targets:

Four species targets occur in watershed 2CH. The primary targets are Ram's-head Lady's-slipper (*Cypripedium arietinum*) and Houghton's Goldenrod (*Solidago houghtonii*). The secondary targets are Gatterer's Agalinis (*Agalinis gattereri*) and Least Bittern (*Ixobrychus exilis*). There is one known occurrence of Houghton's Goldenrod in a protected area. There are no documented occurrences of rare vegetation communities in this watershed.

Conservation Blueprint:

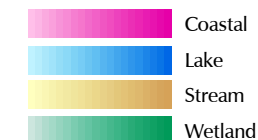
The Conservation Blueprint includes 9,857 hectares of coastal areas, 80,047 hectares of stream systems, 18,028 hectares of lakes and 5,128 hectares of wetlands. The Conservation Blueprint also includes all known occurrences of Houghton's Goldenrod, Ram's-head Lady's-slipper and Gatterer's Agalinis.

Great Lakes Conservation Blueprint for Biodiversity

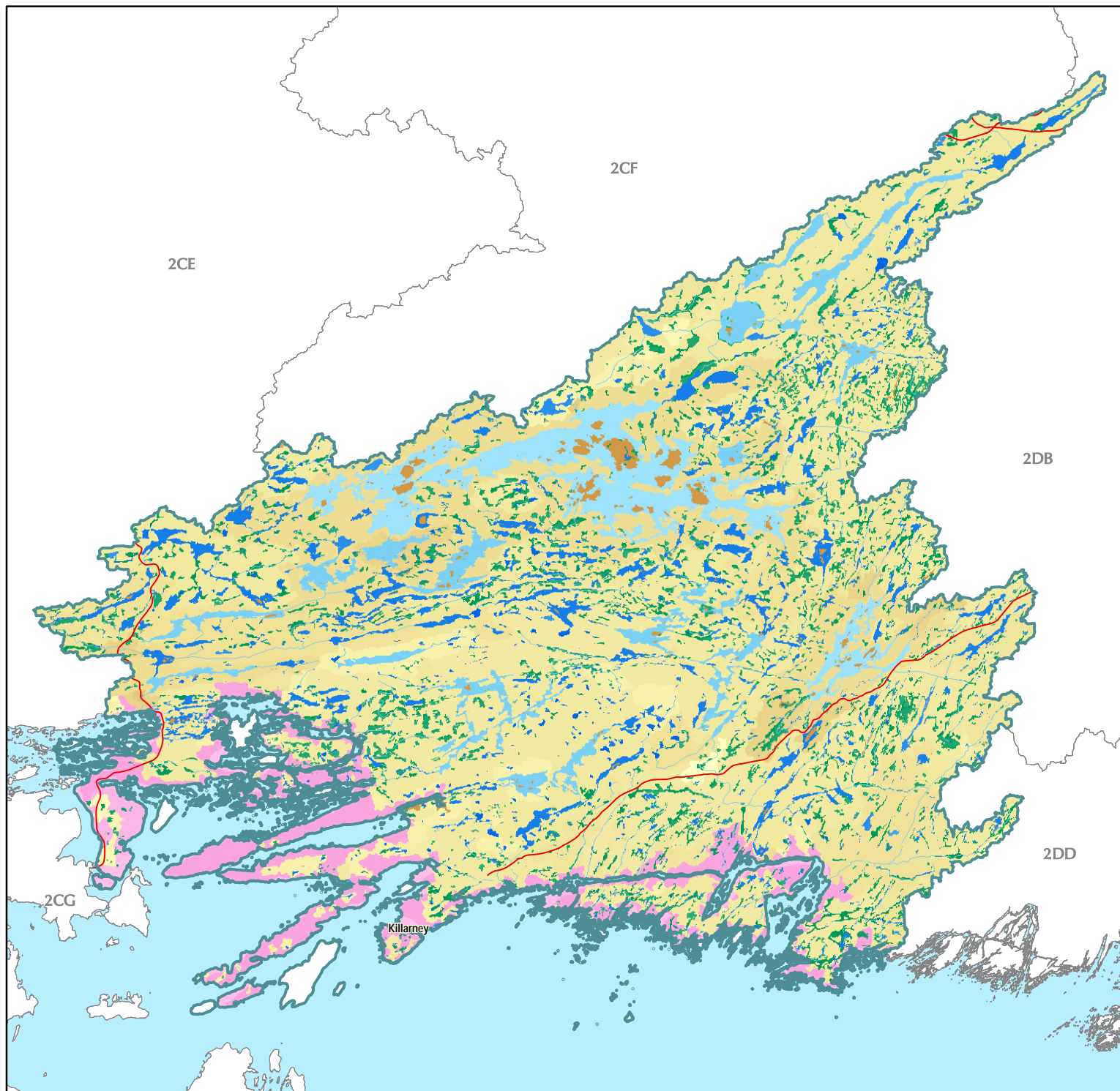
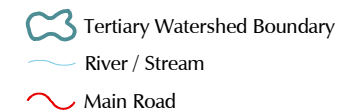
KILLARNEY CHANNEL WATERSHED 2CH



Aquatic Ecological Systems



Other Information



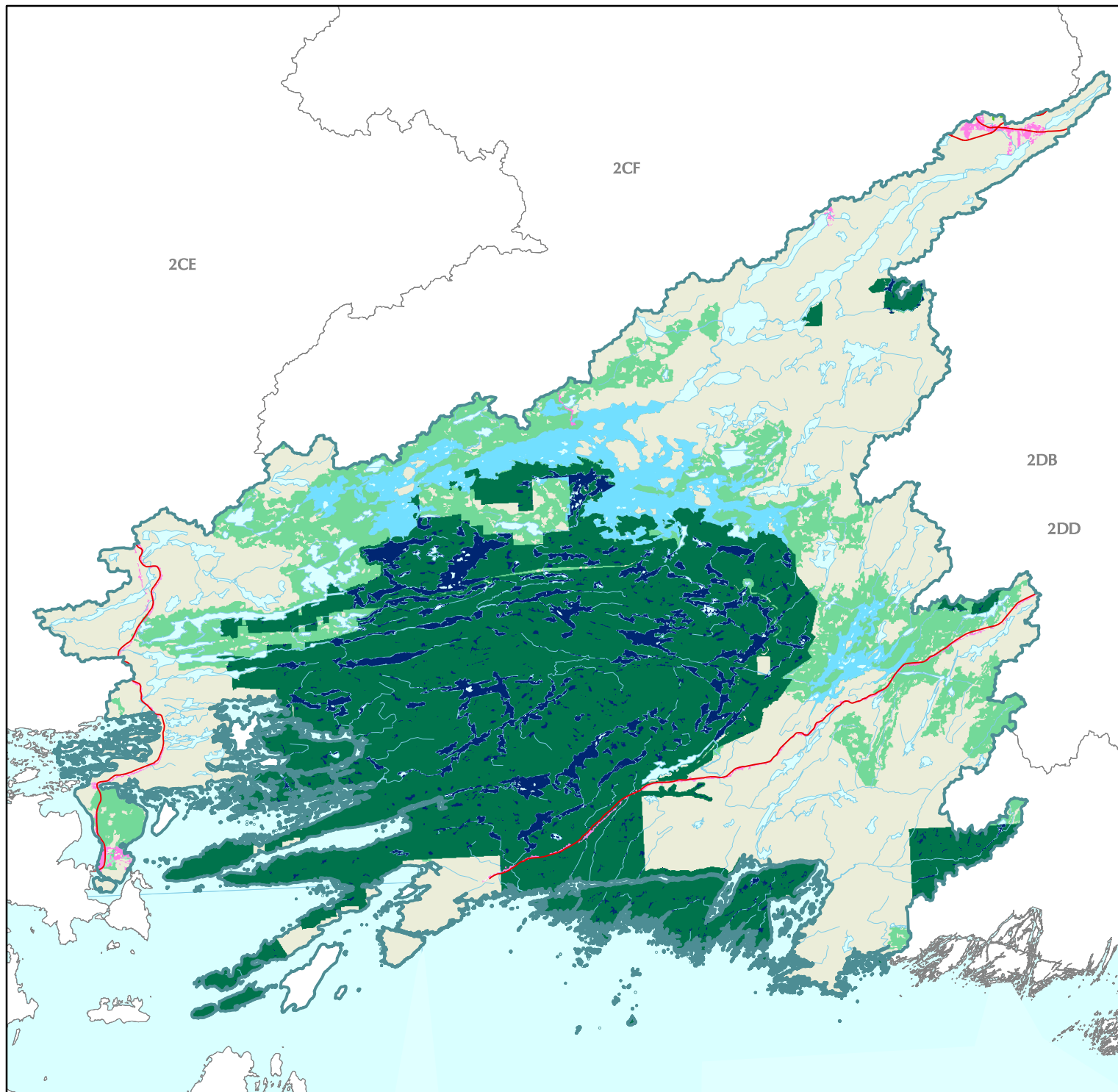
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Great Lakes Conservation Blueprint for Biodiversity

KILLARNEY CHANNEL WATERSHED 2CH



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Documented extant significant species information for tertiary watershed 2CH

Number of pops in 2CH	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in Parks and PAs	% of pops in Parks and PAs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species														
1	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	0	0	0	0	0	secondary
2	<i>Solidago houghtonii</i>	Houghton's Goldenrod	G3	S2	SC		GRank SAR	1	50	1	50	2	100	4
1	<i>Agalinis gattereri</i>	Gatterer's Agalinis	G4	S2	END	END	SAR	0	0	0	0	1	100	secondary
1	<i>Cypripedium arietinum</i>	Ram's-head Lady's-slipper	G3	S3			GRank	0	0	0	0	1	100	2

Ecological systems summary for tertiary watershed 2CH

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	15659.56	7.70	9083.19	58.00	9857.31	62.95	9790.31	62.52
Stream Systems	139116.00	68.37	55569.88	39.94	80047.44	57.54	79890.69	57.43
Lake Systems	28615.63	14.06	9243.50	32.30	18028.94	63.00	18028.94	63.00
Wetland Systems	14765.31	7.26	5128.13	34.73	5128.13	34.73	5128.13	34.73
Tertiary watershed	203469.25	100.00	80689.19	39.66	114726.31	56.39	114502.56	56.28

Ecological systems details for tertiary watershed 2CH

System Integer	# of patches in 2CH	Total area (ha) in 2CH	% of total area in 2CH	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in CA lands	Total area (ha) in CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																
Coastal Systems																
101	59	394.63	0.19	29	215.44	54.59			0.00	29	215.44	54.59	35	215.50	215.50	54.61
102	2	7.31	0.00	2	7.31	100.00			0.00	2	7.31	100.00	3	7.50	7.50	100
104	401	1017.44	0.50	269	658.50	64.72			0.00	269	658.50	64.72	328	658.50	658.50	64.72
105	15	95.31	0.05	13	61.56	64.59			0.00	13	61.56	64.59	17	68.25	68.25	71.61
108	103	347.56	0.17	79	164.25	47.26			0.00	79	164.25	47.26	88	164.31	164.31	47.28
113	124	304.69	0.15	72	166.88	54.77			0.00	72	166.88	54.77	93	167.00	167.00	54.81
114	3	24.31	0.01			0.00			0.00			0.00	4	24.69	24.69	100
116	240	343.38	0.17	162	221.13	64.40			0.00	162	221.13	64.40	193	221.19	221.19	64.42
125	263	10406.06	5.11	161	6694.75	64.34			0.00	161	6694.75	64.34	220	6694.75	6694.75	64.34

System Integer	# of patches in 2CH	Total area (ha) in 2CH	% of total area in 2CH	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in CA lands	Total area (ha) in CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Coastal Systems continued																
127	23	882.38	0.43			0.00			0.00			0.00	4	742.25	675.25	84.12
199	237	1830.69	0.90	144	893.38	48.80			0.00	144	893.38	48.80	211	893.38	893.38	48.80
Stream Systems																
201	1	142.13	0.07			0.00			0.00			0.00	1	142.13	135.94	100.00
203	4	147.06	0.07			0.00			0.00			0.00	2	146.88	73.88	99.87
205	6	285.19	0.14			0.00			0.00			0.00	5	216.25	216.25	75.83
206	5	146.94	0.07	1	1.31	0.89			0.00	1	1.31	0.89	3	101.25	101.25	68.91
208	7	896.50	0.44			0.00			0.00			0.00	5	895.88	880.56	99.93
209	106	5756.75	2.83	47	5191.44	90.18			0.00	47	5191.44	90.18	98	5193.50	5193.50	90.22
210	3	121.69	0.06	2	6.50	5.34			0.00	2	6.50	5.34	3	121.69	121.69	100.00
211	4	801.00	0.39			0.00			0.00			0.00	6	800.88	800.88	99.98
212	4	386.56	0.19	4	378.06	97.80			0.00	4	378.06	97.80	4	386.56	386.56	100.00
213	440	48002.81	23.59	181	23138.44	48.20			0.00	181	23138.44	48.20	296	26380.63	26346.06	54.96
214	222	28779.50	14.14	65	10543.00	36.63	4	9.69	0.03	69	10552.69	36.67	126	11286.50	11286.50	39.22
216	2	64.06	0.03	3	35.88	56.00			0.00	3	35.88	56.00	2	64.06	64.06	100.00
217	118	12177.56	5.98	62	4263.75	35.01			0.00	62	4263.75	35.01	66	5044.50	5044.50	41.42
218	85	9530.31	4.68	28	3806.00	39.94			0.00	28	3806.00	39.94	60	4125.19	4125.19	43.28
219	6	3943.69	1.94	10	1440.06	36.52			0.00	10	1440.06	36.52	13	3943.44	3937.81	99.99
220	2	258.81	0.13			0.00			0.00			0.00	2	258.81	258.81	100.00
221	129	24232.94	11.91	71	5838.94	24.10			0.00	71	5838.94	24.10	78	19403.25	19381.19	80.07
226	1	3.38	0.00			0.00			0.00			0.00				0.00
227	24	2908.56	1.43	10	767.25	26.38			0.00	10	767.25	26.38	15	1373.50	1373.50	47.22
233	1	45.00	0.02			0.00			0.00			0.00				0.00
235	1	31.44	0.02			0.00			0.00			0.00				0.00
236	2	15.38	0.01			0.00			0.00			0.00				0.00
247	7	2.75	0.00			0.00			0.00			0.00				0.00
250	18	12.56	0.01			0.00			0.00			0.00	15	12.13	12.13	96.52
254	4	0.94	0.00			0.00			0.00			0.00	6	0.94	0.94	100.00
Lake Systems																
309	21	9054.44	4.45	9	368.69	4.07			0.00	9	368.69	4.07	70	9050.88	9050.88	99.96

System Integer	# of patches in 2CH	Total area (ha) in 2CH	% of total area in 2CH	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in CA lands	Total area (ha) in CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Lake Systems continued																
315	52	7253.19	3.56	37	3939.13	54.31			0.00	37	3939.13	54.31	87	3939.13	3939.13	54.31
325	5	2.69	0.00			0.00			0.00			0.00				0.00
326	22	37.75	0.02	3	9.31	24.67			0.00	3	9.31	24.67	4	9.31	9.31	24.67
327	8	3.13	0.00			0.00			0.00			0.00				0.00
328	9	6.38	0.00	1	0.13	1.96			0.00	1	0.13	1.96	1	0.13	0.13	1.96
329	219	480.94	0.24	52	114.69	23.85			0.00	52	114.69	23.85	75	114.69	114.69	23.85
330	29	496.63	0.24	6	20.38	4.10			0.00	6	20.38	4.10	11	123.63	123.63	24.89
331	16	13.63	0.01	2	2.06	15.14			0.00	2	2.06	15.14	2	2.06	2.06	15.14
332	7	7.56	0.00			0.00			0.00			0.00				0.00
333	1686	10028.44	4.93	672	4108.00	40.96			0.00	672	4108.00	40.96	1079	4108.00	4108.00	40.96
334	139	119.00	0.06	55	23.69	19.91			0.00	55	23.69	19.91	69	23.69	23.69	19.91
335	12	24.50	0.01	4	5.06	20.66			0.00	4	5.06	20.66	5	5.06	5.06	20.66
336	813	1082.81	0.53	377	650.94	60.12			0.00	377	650.94	60.12	431	650.94	650.94	60.12
Wetland Systems																
409	726	2090.06	1.03	321	947.88	45.35			0.00	321	947.88	45.35	347	947.88	947.88	45.35
410	368	2703.88	1.33	156	1112.50	41.14			0.00	156	1112.50	41.14	171	1112.50	1112.50	41.14
Non-Target Ecological Systems																
Coastal Systems																
124	7	5.81	0.00			0.00			0.00			0.00				0.00
Wetland Systems																
411	1462	3891.50	1.91	481	1128.88	29.01			0.00	481	1128.88	29.01	564	1128.88	1128.88	29.01
412	1035	6079.88	2.99	406	1936.56	31.85	1	2.31	0.04	407	1938.88	31.89	498	1938.88	1938.88	31.89
Unclassified Ecological Systems																
2	12	422.50	0.21	10	149.56	35.40			0.00	10	149.56	35.40	16	149.50	149.50	35.38
3	16	4.56	0.00	4	1.44	31.51			0.00	4	1.44	31.51	5	1.44	1.44	31.51
5	1887	3331.63	1.64	1429	1264.44	37.95			0.00	1429	1264.44	37.95	1813	1264.44	1264.44	37.95
6	1170	1981.13	0.97	421	400.06	20.19			0.00	421	400.06	20.19	480	400.06	400.06	20.19

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and **Additional Designated Natural Heritage Areas** which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

North Wanapitei

Tertiary Watershed 2DA

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area: 253,372 hectares (626,082 acres)

Land Ownership: Crown Land ~ 94 %
Private Land ~ 5%
First Nations Lands ~1 %

Planning Authority: 90% City of Greater Sudbury
6% Sudbury District
4% Timiskaming District

General Description:

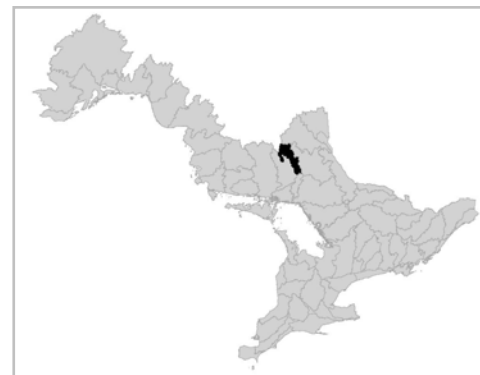
Tertiary watershed 2DA drains into Georgian Bay on Lake Huron, however this watershed does not occur along the Great Lakes coastline. There are approximately 206,344 hectares of stream systems, 29,594 hectares of lakes and 16,532 hectares of wetlands. Wanapitei Lake and the Wanapitei River are within this watershed. Mixed and dense coniferous forests dominate the landscape, while sparse and dense deciduous patches of forest are scattered throughout. A few wetlands, primarily treed bogs, occur within the watershed.

Land Use:

This watershed contains the communities of Skead and Bowland's Bay in the southern end of the region. Forestry is currently the dominant land use.

Protection and Conservation:

The total area of protected and conservation lands in tertiary watershed 2DA is 5,708 hectares, constituting approximately 2.3% of the watershed's total area. All of these lands are located in provincially protected areas.



There are approximately 3,709 hectares of protected stream systems, 1,654 hectares of protected lakes and 317 hectares of protected wetlands.

Species and Vegetation Community Targets:

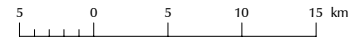
Bald Eagle (*Haliaeetus leucocephalus*), a secondary target, is the only rare species that occurs in watershed 2DA. There are no known occurrences of Bald Eagle in protected areas within the watershed. There are no documented occurrences of rare vegetation communities in this watershed.

Conservation Blueprint:

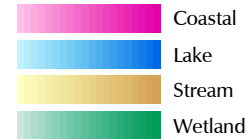
The Conservation Blueprint includes approximately 61,043 hectares of stream systems, 17,243 hectares of lakes and 1,040 hectares of wetlands. The Conservation Blueprint does not include the known occurrence of Bald Eagle.

Great Lakes Conservation Blueprint for Biodiversity

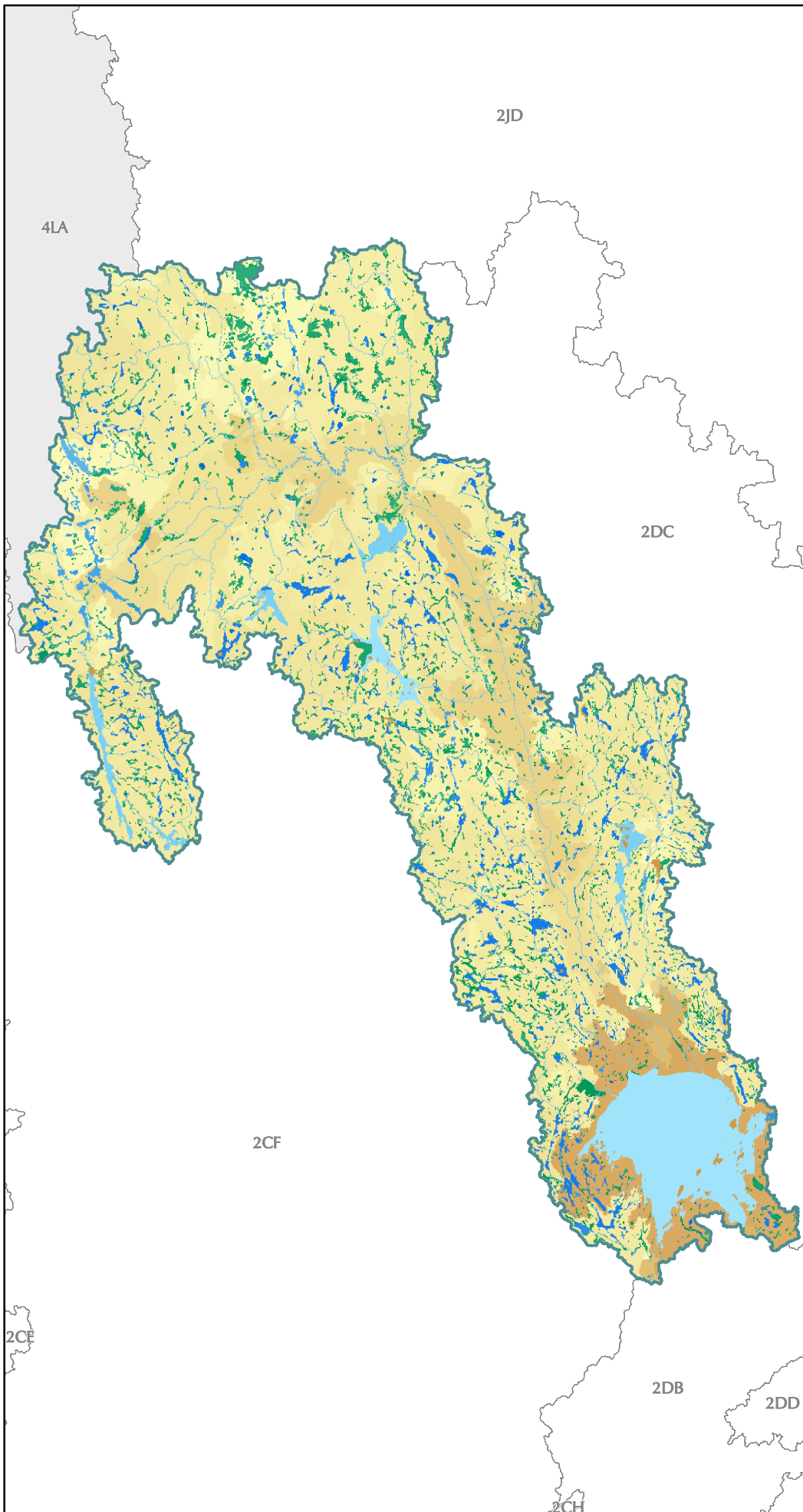
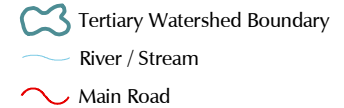
NORTH WANAPITEI WATERSHED 2DA



Aquatic Ecological Systems



Other Information



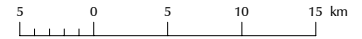
Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.





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Great Lakes Conservation Blueprint for Biodiversity






NORTH WANAPITEI WATERSHED 2DA



Aquatic Conservation Blueprint

-  Parks and Protected Areas
-  Additional Designated Natural Heritage Areas
-  Priority Stewardship Areas - Natural
-  Priority Stewardship Areas - Non-Natural

Other Information

-  Tertiary Watershed Boundary
-  Lake / Water Course
-  Main Road
-  Urban Area
-  Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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2JD

4LA

2DC

2CF

2CE

2DB

2DD

2CH

Documented extant significant species information for tertiary watershed 2DA

Number of pops in 2DA	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species												
1	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S4B,SZN	NAR	END-R	SAR	0	0	0	0	secondary

Ecological systems summary for tertiary watershed 2DA

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stream Systems	206344.56	81.44	3709.81	1.80	61043.13	29.58	61002.94	29.56
Lake Systems	29594.19	11.68	1654.38	5.59	17243.13	58.27	17243.13	58.27
Wetland Systems	16532.25	6.52	317.00	1.92	1040.75	6.30	1040.75	6.30
Tertiary watershed	253372.75	100.00	5708.06	2.25	79353.75	31.32	79313.56	31.30

Ecological systems details for tertiary watershed 2DA

System Integer	# of patches in 2DA	Total area (ha) in 2DA	% of total area in 2DA	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems													
Stream Systems													
203	98	5354.56	2.11			0.00			0.00	7	1302.19	1302.19	24.32
204	3	239.31	0.09			0.00			0.00	4	239.31	239.31	100.00
205	42	5045.06	1.99	1	630.31	12.49	1	630.31	12.49	10	2365.69	2365.69	46.89
206	14	2036.63	0.80			0.00			0.00	4	1713.38	1713.38	84.13
208	61	6414.50	2.53			0.00			0.00	8	2325.88	2325.88	36.26
209	48	3537.31	1.40	1	10.88	0.31	1	10.88	0.31	8	517.75	517.75	14.64
210	46	7483.56	2.95	1	0.63	0.01	1	0.63	0.01	13	2591.13	2591.13	34.62
211	85	14230.31	5.62			0.00			0.00	13	2352.88	2352.88	16.53
212	19	2412.44	0.95	5	47.81	1.98	5	47.81	1.98	10	606.00	606.00	25.12
213	514	46192.94	18.23	11	515.56	1.12	11	515.56	1.12	45	10211.19	10211.19	22.11
214	394	29518.50	11.65	17	640.00	2.17	17	640.00	2.17	32	1740.88	1740.88	5.90
215	20	2027.44	0.80	1	0.81	0.04	1	0.81	0.04	5	1822.69	1822.69	89.90

System Integer	# of patches in 2DA	Total area (ha) in 2DA	% of total area in 2DA	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued													
Stream Systems continued													
216	14	1304.31	0.51			0.00			0.00	3	944.81	944.81	72.44
217	105	21337.81	8.42	12	34.94	0.16	12	34.94	0.16	28	5103.38	5103.38	23.92
218	54	6455.19	2.55	16	152.63	2.36	16	152.63	2.36	28	1976.94	1976.94	30.63
219	18	6255.50	2.47			0.00			0.00	8	6110.06	6110.06	97.68
220	7	1608.88	0.63			0.00			0.00	3	1608.31	1608.31	99.97
221	72	9262.38	3.66			0.00			0.00	56	4.94	4.94	0.05
222	18	2135.00	0.84			0.00			0.00	4	2134.06	2134.06	99.96
223	13	343.75	0.14			0.00			0.00	11	90.38	90.38	26.29
224	5	905.63	0.36			0.00			0.00	4	905.25	905.25	99.96
226	15	1131.56	0.45			0.00			0.00	3	674.06	674.06	59.57
227	63	15029.44	5.93	1	2.94	0.02	1	2.94	0.02	17	4.31	4.31	0.03
228	21	1008.31	0.40	5	135.88	13.48	5	135.88	13.48	19	946.69	946.69	93.89
230	8	270.63	0.11			0.00			0.00	7	193.88	193.88	71.64
231	6	244.44	0.10			0.00			0.00	4	244.00	244.00	99.82
233	2	233.94	0.09			0.00			0.00	2	233.94	233.94	100.00
238	4	336.44	0.13			0.00			0.00	4	336.38	296.19	99.98
241	8	603.13	0.24	1	177.31	29.40	1	177.31	29.40	5	589.13	589.13	97.68
247	27	1013.13	0.40	1	53.00	5.23	1	53.00	5.23	27	1012.56	1012.56	99.94
248	15	2405.44	0.95	1	103.69	4.31	1	103.69	4.31	7	2397.25	2397.25	99.66
250	24	9854.50	3.89	3	1113.94	11.30	3	1113.94	11.30	29	7654.38	7654.38	77.67
253	1	21.75	0.01			0.00			0.00				0.00
Lake Systems													
306	3	13200.06	5.21	2	503.50	3.81	2	503.50	3.81	11	13200.00	13200.00	100.00
309	2	1004.94	0.40			0.00			0.00	6	1004.94	1004.94	100.00
315	20	2757.75	1.09	7	742.00	26.91	7	742.00	26.91	12	1854.63	1854.63	67.25
322	1	245.81	0.10	1	201.06	81.80	1	201.06	81.80	2	245.81	245.81	100.00
325	30	151.13	0.06			0.00			0.00	9	2.00	2.00	1.32
326	207	1174.56	0.46	2	9.56	0.81	2	9.56	0.81	7	302.13	302.13	25.72
327	2	5.31	0.00			0.00			0.00				0.00
328	78	200.44	0.08	6	28.88	14.41	6	28.88	14.41	7	29.81	29.81	14.87
329	120	364.06	0.14			0.00			0.00	9	6.38	6.38	1.75

System Integer	# of patches in 2DA	Total area (ha) in 2DA	% of total area in 2DA	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued													
Lake Systems continued													
330	112	571.38	0.23			0.00			0.00	8	2.75	2.75	0.48
331	168	603.69	0.24	6	27.69	4.59	6	27.69	4.59	8	27.69	27.69	4.59
332	5	10.75	0.00			0.00			0.00				0.00
333	1321	7872.63	3.11	31	136.31	1.73	31	136.31	1.73	50	554.06	554.06	7.04
334	183	106.81	0.04			0.00			0.00	3	2.75	2.75	2.57
335	22	102.69	0.04			0.00			0.00	3	4.81	4.81	4.69
336	858	1222.19	0.48	11	5.38	0.44	11	5.38	0.44	11	5.38	5.38	0.44
Wetland Systems													
409	697	2888.13	1.14	13	26.63	0.92	13	26.63	0.92	20	302.75	302.75	10.48
410	508	3167.06	1.25	14	53.06	1.68	14	53.06	1.68	25	500.69	500.69	15.81
Non-Target Ecological Systems													
Wetland Systems													
411	2170	4426.00	1.75	50	76.56	1.73	50	76.56	1.73	59	76.56	76.56	1.73
412	1331	6051.06	2.39	35	160.75	2.66	35	160.75	2.66	43	160.75	160.75	2.66
Unclassified Ecological Systems													
2	4	90.88	0.04	1	89.50	98.49	1	89.50	98.49	1	89.50	89.50	98.49
5	10	0.63	0.00	2	0.13	20.00	2	0.13	20.00				0.00
6	1095	901.13	0.36	36	26.75	2.97	36	26.75	2.97	39	26.75	26.75	2.97

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves). **All Conservation Lands** are parks and protected areas (defined above) and **Additional Designated Natural Heritage Areas** which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands. **Priority Stewardship Areas** are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

South Wanapitei

Tertiary Watershed 2DB

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area: 121,138 hectares (299,331 acres)

Land Ownership: Crown Land ~ 60 %
Private Land ~ 40%

Planning Authority: 73% City of Greater Sudbury
27% Sudbury District

General Description:

Tertiary watershed 2DB drains into Georgian Bay on Lake Huron, however this watershed does not occur along the Great Lakes coastline. There are approximately 105,952 hectares of stream systems, 4,725 hectares of lakes and 10,352 hectares of wetlands. The Wanapitei River flows through the centre of this watershed. The watershed's natural cover is predominantly sparse deciduous forest and mixed forest. A few treed bogs are also present.

Land Use:

Watershed 2DB contains the settlements of Estaire, Wanup, Wahnapiatae, Coniston and Falconbridge. Developed lands in the city of Sudbury extend into this watershed. Mine tailings concentrated around the city comprise nearly half of the watershed. Forestry is active in the southern portion of the watershed.

Protection and Conservation:

The total area of protected and conservation lands in tertiary watershed 2DB is 1,225 hectares, constituting approximately 1% of the total area of the



watershed. All of these protected lands are located in provincially protected areas. There are approximately 1,035 hectares of protected stream systems, 63 hectares of protected lakes and 125 hectares of protected wetlands.

Species and Vegetation Community Targets:

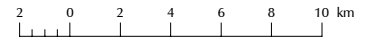
There are no known occurrences of species targets or rare vegetation communities in this watershed.

Conservation Blueprint:

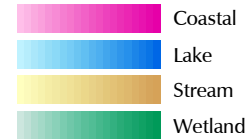
The Conservation Blueprint includes 30,812 hectares of stream systems, 1,019 hectares of lakes and 442 hectares of wetlands.

Great Lakes Conservation Blueprint for Biodiversity

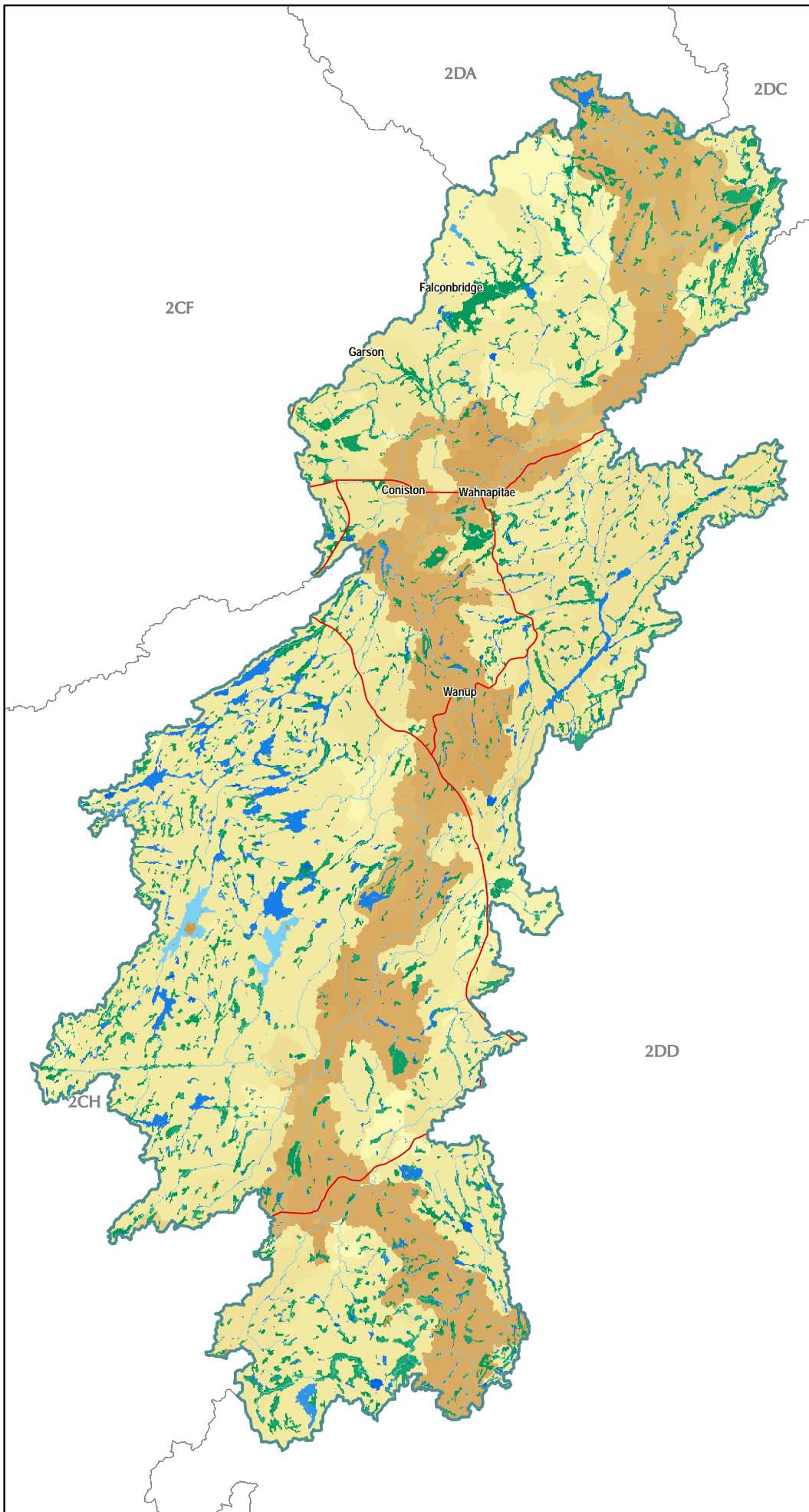
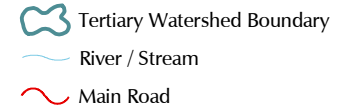
SOUTH WANAPITEI WATERSHED 2DB



Aquatic Ecological Systems



Other Information



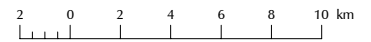
Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Great Lakes Conservation Blueprint for Biodiversity

SOUTH WANAPITEI WATERSHED 2DB

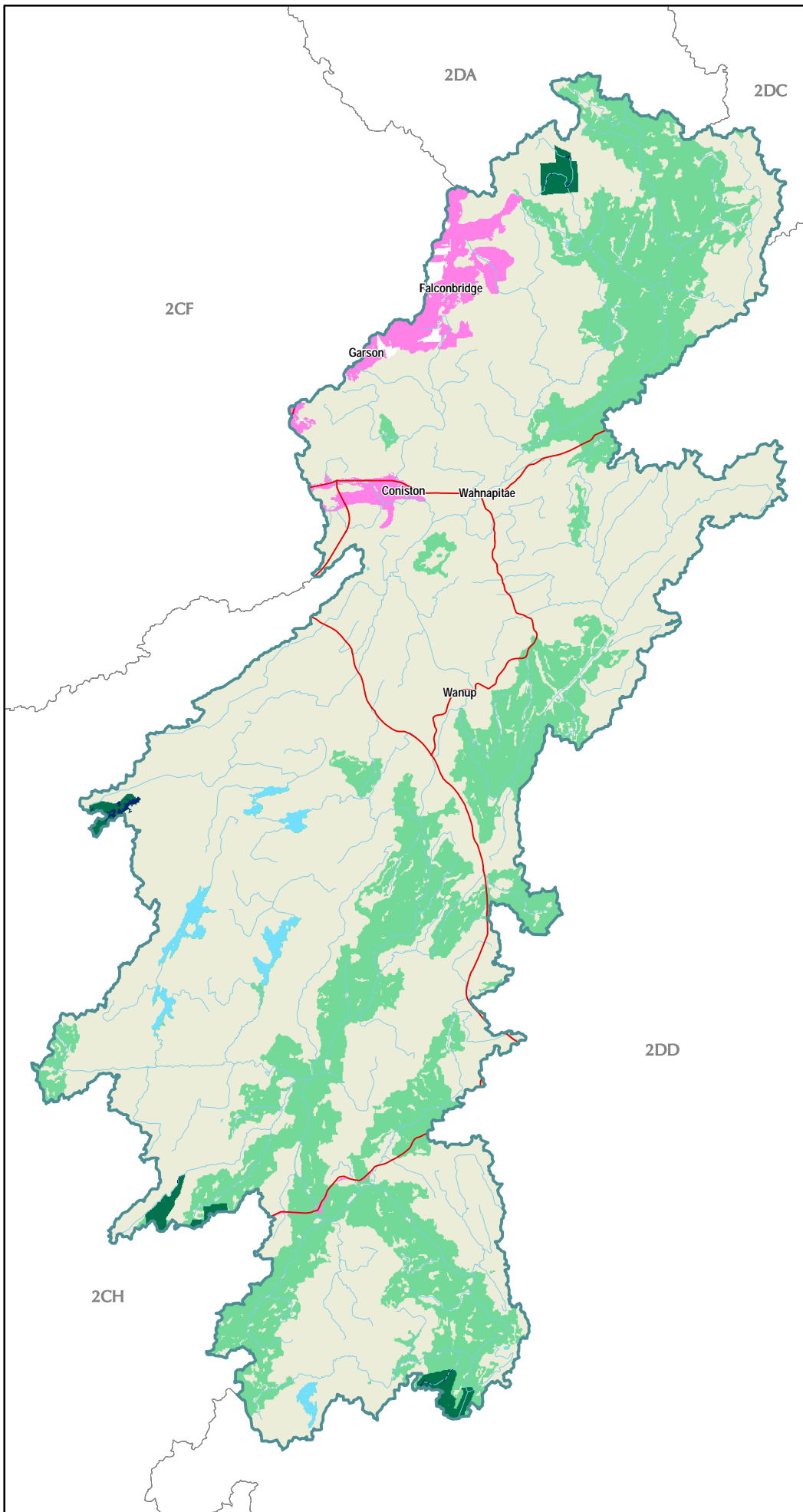


Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Ecological systems summary for tertiary watershed 2DB

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stream Systems	105952.63	87.46	1035.19	0.98	30812.38	29.08	30780.25	29.05
Lake Systems	4725.13	3.90	63.69	1.35	1019.25	21.57	1019.25	21.57
Wetland Systems	10352.81	8.55	125.19	1.21	442.75	4.28	442.75	4.28
Tertiary watershed	121138.06	100.00	1225.44	1.01	32275.75	26.64	32243.63	26.62

Ecological systems details for tertiary watershed 2DB

System Integer	# of patches in 2DB	Total area (ha) in 2DB	% of total area in 2DB	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems													
Stream Systems													
203	18	2300.94	1.90	2	284.38	12.36	2	284.38	12.36	9	1340.63	1340.63	58.26
205	11	351.44	0.29			0.00			0.00	3	135.69	135.69	38.61
206	3	264.25	0.22			0.00			0.00	3	264.25	264.25	100.00
208	26	4559.63	3.76			0.00			0.00	9	1531.25	1528.38	33.58
209	19	1028.13	0.85			0.00			0.00	8	775.31	775.31	75.41
210	7	496.44	0.41			0.00			0.00	8	496.25	496.25	99.96
211	23	3314.63	2.74			0.00			0.00	5	1014.13	1014.13	30.60
212	2	101.63	0.08			0.00			0.00	2	101.63	101.63	100.00
213	293	30017.94	24.78	15	280.44	0.93	15	280.44	0.93	20	650.19	650.19	2.17
214	203	16529.63	13.65			0.00			0.00	17	323.19	323.19	1.96
215	10	52.25	0.04			0.00			0.00	10	52.13	51.81	99.76
216	2	93.00	0.08			0.00			0.00	1	92.94	92.94	99.93
217	209	7708.69	6.36	5	90.56	1.17	5	90.56	1.17	11	1521.50	1521.50	19.74
218	86	7257.38	5.99	4	0.81	0.01	4	0.81	0.01	22	1580.00	1580.00	21.77
219	11	2499.31	2.06			0.00			0.00	8	2497.69	2497.69	99.93
221	9	319.13	0.26			0.00			0.00	8	318.75	318.75	99.88
226	1	42.00	0.03			0.00			0.00				0.00
227	9	146.81	0.12	2	56.13	38.23	2	56.13	38.23	16	146.88	146.88	100.0

System Integer	# of patches in 2DB	Total area (ha) in 2DB	% of total area in 2DB	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued													
Stream Systems continued													
237	2	19.69	0.02			0.00			0.00				0.00
238	3	0.25	0.00			0.00			0.00	4	0.25	0.19	100.00
239	1	37.88	0.03			0.00			0.00				0.00
241	10	2177.44	1.80			0.00			0.00	5	2167.56	2167.56	99.55
242	4	228.00	0.19			0.00			0.00	3	227.88	227.88	99.95
243	1	10.19	0.01			0.00			0.00				0.00
244	4	756.69	0.62			0.00			0.00	4	756.63	756.63	99.99
247	26	5040.31	4.16			0.00			0.00	12	4230.63	4230.63	83.94
248	29	4841.75	4.00	2	3.50	0.07	2	3.50	0.07	17	1582.00	1582.00	32.67
250	60	12662.00	10.45	2	318.13	2.51	2	318.13	2.51	13	7147.31	7118.44	56.45
252	2	167.38	0.14			0.00			0.00	2	167.38	167.38	100.00
253	16	1788.69	1.48			0.00			0.00	7	671.13	671.13	37.52
254	1	1018.00	0.84			0.00			0.00	1	1018.00	1018.00	100.00
Lake Systems													
306	1	3.38	0.00			0.00			0.00	1	3.38	3.38	100.00
315	3	502.56	0.41			0.00			0.00	5	502.50	502.50	99.99
325	9	24.69	0.02			0.00			0.00				0.00
326	92	62.44	0.05	3	0.50	0.80	3	0.50	0.80	9	3.19	3.19	5.11
327	2	5.69	0.00			0.00			0.00				0.00
328	35	41.75	0.03			0.00			0.00				0.00
329	142	336.50	0.28	4	50.31	14.95	4	50.31	14.95	14	169.13	169.13	50.26
330	25	51.81	0.04			0.00			0.00	6	7.06	7.06	13.63
331	82	39.06	0.03	1	0.50	1.28	1	0.50	1.28	2	0.56	0.56	1.44
332	3	7.13	0.01			0.00			0.00				0.00
333	1037	2975.38	2.46	6	8.56	0.29	6	8.56	0.29	19	322.06	322.06	10.82
334	162	97.56	0.08	1	0.50	0.51	1	0.50	0.51	4	5.75	5.75	5.89
335	21	14.50	0.01			0.00			0.00				0.00
336	758	562.69	0.46	8	3.31	0.59	8	3.31	0.59	18	5.63	5.63	1.00

System Integer	# of patches in 2DB	Total area (ha) in 2DB	% of total area in 2DB	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued													
Wetland Systems													
408	3	33.13	0.03			0.00			0.00				0.00
409	220	572.63	0.47	3	3.88	0.68	3	3.88	0.68	8	49.38	49.38	8.62
410	220	1391.94	1.15	9	25.94	1.86	9	25.94	1.86	17	298.00	298.00	21.41
Non-Target Ecological Systems													
Wetland Systems													
411	932	2553.69	2.11	21	36.63	1.43	21	36.63	1.43	26	36.63	36.63	1.43
412	858	5801.44	4.79	12	58.75	1.01	12	58.75	1.01	15	58.75	58.75	1.01
Unclassified Ecological Systems													
2	14	121.19	0.10	1	1.25	1.03	1	1.25	1.03	1	1.25	1.25	1.03
6	268	107.50	0.09	3	1.38	1.28	3	1.38	1.28	4	1.38	1.38	1.28

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

Sturgeon

Tertiary Watershed 2DC

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area: 688,663 hectares (1,701,686 acres)

Land Ownership: Crown Land ~ 92%
Private Land ~ 7%
First Nations Lands ~ 1%

Planning Authority: 60% Nipissing District
36% Sudbury District
4% Timiskaming District

General Description:

Tertiary watershed 2DC is relatively large and drains into Georgian Bay on Lake Huron, but does not occur along the Great Lakes coastline. There are approximately 556,884 hectares of stream systems, 81,987 hectares of lakes and 43,769 hectares of wetlands in this catchment. The majority of Lake Temagami lies within the watershed, as well as the Sturgeon River. The dominant natural forest cover is mixed forest and dense coniferous forest. A few small areas of dense deciduous forests also occur. Treed bogs are the primary wetland type in the region.

Land Use:

Forestry is the dominant land use. There are a few pastures in the southern portions of the watershed. Communities within this watershed include Marten River, Tilden Lake, River Valley and West Nipissing.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2DC is 61,216 hectares which constitutes approximately 8.9% of the



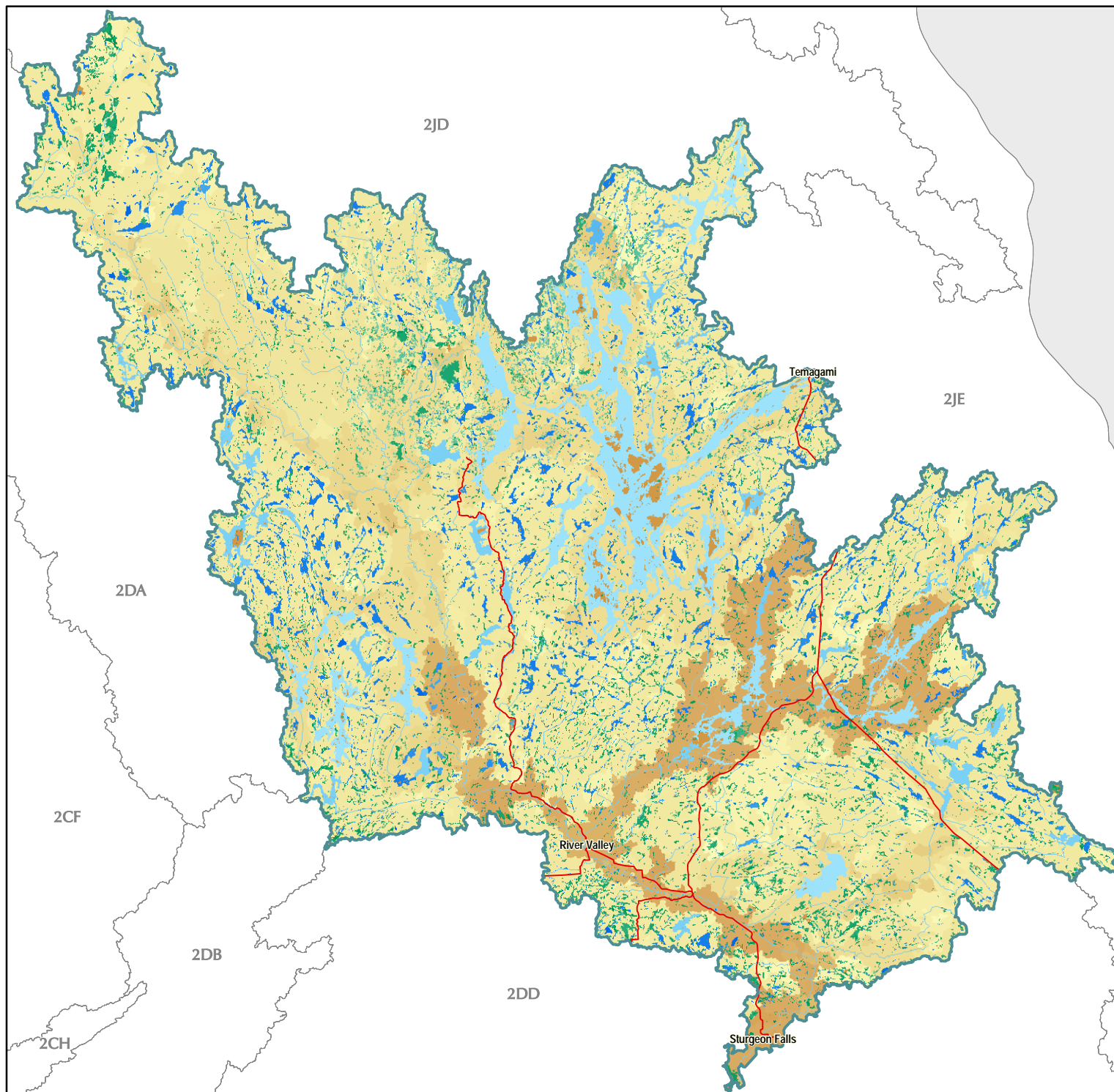
watershed's total area. The majority of these lands (61,024 ha) are located in provincially protected areas. There are approximately 49,506 hectares of protected stream systems, 6,690 hectares of protected lakes and 4,352 hectares of protected wetlands.

Species and Vegetation Community Targets:

There are no known occurrences of species targets or rare vegetation communities in this watershed.

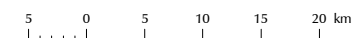
Conservation Blueprint:

The Conservation Blueprint includes 111,199 hectares of stream systems, 13,094 hectares of lakes and 4,778 hectares of wetlands.

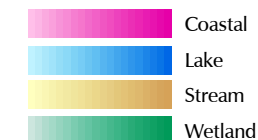


Great Lakes Conservation Blueprint for Biodiversity

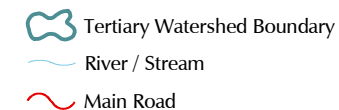
STURGEON WATERSHED 2DC



Aquatic Ecological Systems



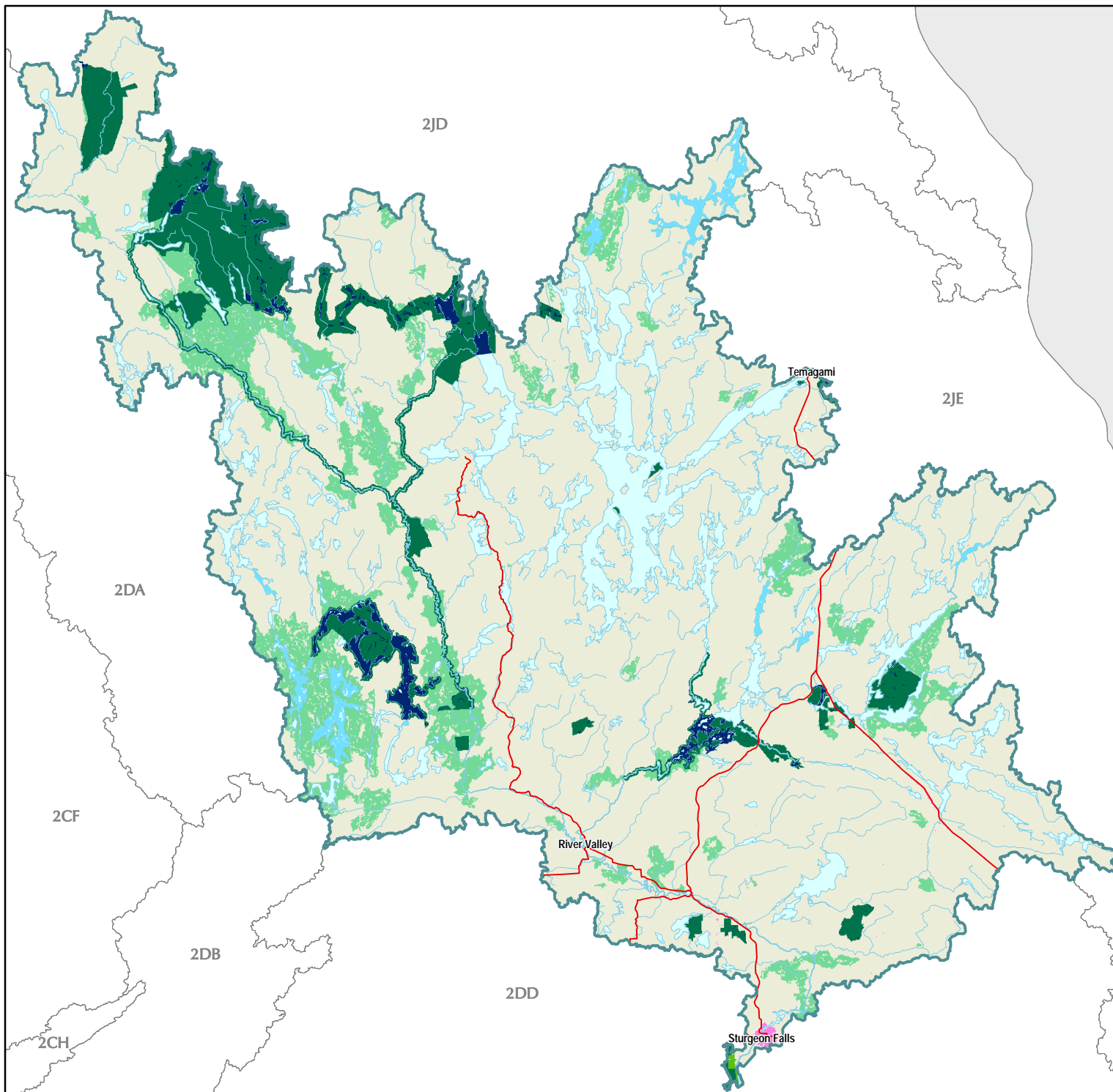
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Great Lakes Conservation Blueprint for Biodiversity

STURGEON WATERSHED 2DC



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



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Ecological systems summary for tertiary watershed 2DC

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stream Systems	556884.75	80.86	49506.13	8.89	111199.13	19.97	111198.13	19.97
Lake Systems	81987.38	11.91	6690.38	8.16	13094.56	15.97	13094.56	15.97
Wetland Systems	43769.13	6.36	4352.69	9.94	4778.44	10.92	4778.44	10.92
Tertiary watershed	688663.19	100.00	61216.44	8.89	129739.75	18.84	129738.75	18.84

Ecological systems details for tertiary watershed 2DC

System Integer	# of patches in 2DC	Total area (ha) in 2DC	% of total area in 2DC	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems													
Stream Systems													
201	11	1.25	0.00			0.00			0.00	13	1.25	1.25	100.00
202	6	382.44	0.06			0.00			0.00	4	382.06	382.06	99.90
203	96	3231.00	0.47	4	13.25	0.41	4	13.25	0.41	8	491.81	491.81	15.22
204	5	295.38	0.04	1	15.38	5.21	1	15.38	5.21	3	295.25	295.25	99.96
205	70	3329.25	0.48	1	140.06	4.21	1	140.06	4.21	8	1854.44	1854.44	55.70
206	23	759.69	0.11	2	8.44	1.11	2	8.44	1.11	8	335.69	335.69	44.19
207	6	170.44	0.02	1	86.69	50.86	1	86.69	50.86	7	125.13	125.13	73.41
208	195	24017.50	3.49	18	1601.13	6.67	18	1601.13	6.67	37	3251.00	3251.00	13.54
209	109	9789.56	1.42	38	1285.94	13.14	38	1285.94	13.14	55	1768.25	1768.25	18.06
210	52	5340.81	0.78	8	233.00	4.36	8	233.00	4.36	16	760.06	760.06	14.23
211	255	21054.13	3.06	42	2433.06	11.56	42	2433.06	11.56	60	2986.75	2986.75	14.19
212	51	6364.81	0.92	20	2327.94	36.58	20	2327.94	36.58	25	2350.06	2350.06	36.92
213	773	126421.25	18.36	106	7219.38	5.71	106	7219.38	5.71	154	7251.75	7251.75	5.74
214	629	100395.75	14.58	77	4142.19	4.13	77	4142.19	4.13	103	11819.81	11819.81	11.77
215	27	949.06	0.14	7	677.25	71.36	7	677.25	71.36	19	766.13	766.13	80.72
216	36	4798.63	0.70	5	1108.81	23.11	5	1108.81	23.11	8	1417.63	1417.63	29.54
217	172	46587.81	6.76	72	8529.69	18.31	72	8529.69	18.31	113	10355.88	10355.88	22.23
218	65	10794.13	1.57	21	2183.25	20.23	21	2183.25	20.23	30	8146.81	8146.81	75.47
219	22	1412.06	0.21	1	2.19	0.15	1	2.19	0.15	17	1380.31	1380.31	97.75
220	14	1514.06	0.22	6	24.56	1.62	6	24.56	1.62	7	874.25	874.25	57.74
221	331	97662.44	14.18	62	7924.69	8.11	62	7924.69	8.11	102	16806.25	16806.25	17.21

System Integer	# of patches in 2DC	Total area (ha) in 2DC	% of total area in 2DC	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued													
Stream Systems continued													
222	2	1823.63	0.26	1	4.94	0.27	1	4.94	0.27	11	1823.56	1823.56	100.00
223	7	700.81	0.10	4	9.69	1.38	4	9.69	1.38	4	580.06	580.06	82.77
224	2	228.69	0.03	5	7.06	3.09	5	7.06	3.09	2	228.69	228.69	100.00
225	5	2665.81	0.39	7	244.19	9.16	7	244.19	9.16	10	1722.44	1722.44	64.61
226	36	6923.94	1.01	8	1009.06	14.57	8	1009.06	14.57	11	1833.44	1833.44	26.48
227	123	8710.13	1.26	31	1136.69	13.05	31	1136.69	13.05	38	1910.13	1910.13	21.93
228	14	707.88	0.10	3	27.06	3.82	3	27.06	3.82	9	648.06	648.06	91.55
230	8	839.44	0.12	5	164.25	19.57	5	164.25	19.57	9	722.75	722.75	86.10
231	24	4530.13	0.66	5	549.06	12.12	5	549.06	12.12	17	3376.00	3376.00	74.52
232	6	330.31	0.05	5	50.44	15.27	5	50.44	15.27	5	317.81	317.81	96.22
233	13	1503.63	0.22	4	169.13	11.25	4	169.13	11.25	5	1091.19	1091.19	72.57
235	5	530.25	0.08	2	3.81	0.72	2	3.81	0.72	5	521.56	521.56	98.36
236	3	14.13	0.00	2	2.13	15.04	2	2.13	15.04	2	2.13	2.13	15.04
237	3	19.00	0.00			0.00			0.00				0.00
238	6	583.75	0.08	2	124.56	21.34	2	124.56	21.34	7	483.88	483.88	82.89
240	2	16.94	0.00			0.00			0.00				0.00
241	18	2226.44	0.32	2	31.00	1.39	3	49.06	2.20	8	2066.56	2066.56	92.82
242	6	275.19	0.04	3	76.50	27.80	3	76.50	27.80	4	212.13	212.13	77.08
244	8	469.94	0.07			0.00			0.00	4	413.69	413.69	88.03
247	22	5803.69	0.84	3	264.69	4.56	3	264.69	4.56	7	2465.25	2465.25	42.48
248	35	8134.25	1.18	9	526.19	6.47	9	526.19	6.47	29	4145.13	4145.13	50.96
250	217	42536.00	6.18	82	4967.19	11.68	79	5114.81	12.02	126	12191.63	12190.63	28.66
251	1	73.00	0.01			0.00			0.00	1	73.00	73.00	100.00
253	6	1426.81	0.21			0.00			0.00	5	924.50	924.50	64.79
254	45	444.50	0.06	9	2.13	0.48	11	6.56	1.48	90	15.63	15.63	3.52
Lake Systems continued													
305	4	1921.88	0.28			0.00			0.00	16	1921.38	1921.38	99.97
306	3	0.19	0.00	3	0.19	100.00	3	0.19	100.00				0.00
309	104	37535.13	5.45	35	3138.56	8.36	35	3138.56	8.36	91	5777.88	5777.88	15.39
315	59	11256.81	1.63	7	1285.31	11.42	7	1285.31	11.42	19	1290.94	1290.94	11.47
317	4	562.31	0.08			0.00			0.00	4	562.13	562.13	99.97

System Integer	# of patches in 2DC	Total area (ha) in 2DC	% of total area in 2DC	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued													
Lake Systems continued													
320	1	243.81	0.04			0.00			0.00	1	243.81	243.81	100.00
322	2	440.00	0.06			0.00			0.00	2	439.69	439.69	99.93
325	65	70.19	0.01	9	3.88	5.52	9	3.88	5.52	15	4.44	4.44	6.32
326	487	1725.38	0.25	28	198.25	11.49	28	198.25	11.49	47	313.63	313.63	18.18
327	44	204.75	0.03			0.00			0.00	4	120.00	120.00	58.61
328	62	95.44	0.01	14	5.44	5.70	14	5.44	5.70	15	7.06	7.06	7.40
329	338	1074.63	0.16	37	166.38	15.48	37	166.38	15.48	63	167.06	167.06	15.55
330	184	1447.88	0.21	13	271.69	18.76	13	271.69	18.76	21	436.44	436.44	30.14
331	415	660.50	0.10	18	21.25	3.22	18	21.25	3.22	19	21.25	21.25	3.22
332	56	54.56	0.01	2	0.38	0.69	2	0.38	0.69	5	6.19	6.19	11.34
333	3828	20903.38	3.04	160	1182.00	5.65	160	1182.00	5.65	255	1355.00	1355.00	6.48
334	332	389.81	0.06	23	80.50	20.65	23	80.50	20.65	26	82.19	82.19	21.08
335	112	221.75	0.03	7	2.75	1.24	7	2.75	1.24	12	11.06	11.06	4.99
336	2556	3179.00	0.46	106	333.81	10.50	106	333.81	10.50	127	334.44	334.44	10.52
Wetland Systems													
405	2181	5937.69	0.86	192	452.75	7.63	192	452.75	7.63	285	485.13	485.13	8.17
406	423	2700.25	0.39	52	166.13	6.15	52	166.13	6.15	60	279.63	279.63	10.36
407	36	140.88	0.02	7	17.94	12.73	7	17.94	12.73	11	27.94	27.94	19.83
408	13	144.31	0.02	4	79.19	54.87	4	79.19	54.87	10	124.44	124.44	86.23
409	1474	4629.63	0.67	141	558.94	12.07	140	566.00	12.23	157	566.13	566.13	12.23
410	1061	6639.94	0.96	74	922.31	13.89	74	922.31	13.89	82	1146.63	1146.63	17.27
Non-Target Ecological Systems													
Wetland Systems													
411	6255	10969.06	1.59	589	1370.31	12.49	589	1384.81	12.62	684	1384.81	1384.81	12.62
412	4309	12607.38	1.83	295	763.56	6.06	295	763.56	6.06	369	763.75	763.75	6.06
Unclassified Ecological Systems													
2	34	95.06	0.01	15	9.38	9.86	15	9.38	9.86	20	9.38	9.38	9.86
6	4405	6021.94	0.87	448	667.25	11.08	448	667.25	11.08	523	667.63	667.63	11.09

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

French

Tertiary Watershed 2DD

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area: 884,823 hectares (2,186,397 acres)

Land Ownership: Crown Land ~ 50%
Private Land ~ 40%
First Nations Lands ~10%

Planning Authority: 43% Parry Sound District, 30% Nipissing District, 27% Sudbury District

General Description:

Tertiary watershed 2DD drains into Georgian Bay on Lake Huron. There are approximately 3,083 hectares of coastal areas, 681,068 hectares of stream systems, 111,927 hectares of lakes and 80,075 hectares of wetlands. Lake Nipissing occupies a significant portion of this watershed. The French River is also located in the catchment. Many small islands are found along the watershed's portion of Georgian Bay shoreline. Mixed forests dominate the natural forest cover. Sparse deciduous forests occur in the western portions, while dense deciduous forests are in the east. A few treed bogs are scattered throughout the watershed, and patches of treed fen occur south of Lake Nipissing.

Land Use:

The city of North Bay is located here, as are a number of smaller, scattered settlements. Development is concentrated around North Bay. Some areas of pasture and abandoned field are present in the southern reaches of the watershed. A few small patches of older cutover indicate historical forestry activity, although there is currently little logging in the area.

Protection and Conservation:

The combined area of protected and conservation lands in this tertiary



watershed is 96,233 hectares, constituting approximately 11% of the watershed's total area. The majority of these lands (93,866 ha) are located in provincially protected areas including French River Provincial Park and Grundy Lake Provincial Park. There are approximately 3,016 hectares of protected coastal areas, 70,639 hectares of protected stream systems, 9,742 hectares of protected lakes and 9,045 hectares of protected wetlands.

Species and Vegetation Community Targets:

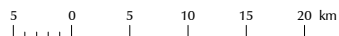
Seven species targets are reported in watershed 2DD: Lake Sturgeon (*Acipenser fulvescens*), Black Tern (*Chlidonias niger*), Northern Map Turtle (*Graptemys geographica*), Bald Eagle (*Haliaeetus leucocephalus*), Northern Brook Lamprey (*Ichthyomyzon fossor*), Least Bittern (*Ixobrychus exilis*) and Stinkpot (*Sternotherus odoratus*). There are occurrences for Lake Sturgeon, Black Tern, Northern Map Turtle, Bald Eagle and Least Bittern in protected areas. Atlantic Coastal Plain Shallow Marsh is the only documented rare vegetation community in the watershed.

Conservation Blueprint:

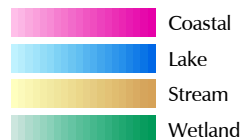
The Conservation Blueprint includes 3,017 hectares of coastal areas, 126,052 hectares of stream systems, 84,013 hectares of lakes and 10,183 hectares of wetlands. The Conservation Blueprint also includes the one occurrence for Lake Sturgeon, as well as all three viable occurrences of the Atlantic Coastal Plain Shallow Marsh vegetation community.

Great Lakes Conservation Blueprint for Biodiversity

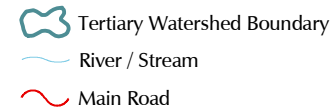
FRENCH WATERSHED 2DD



Aquatic Ecological Systems



Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

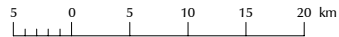
For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

FRENCH WATERSHED 2DD



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

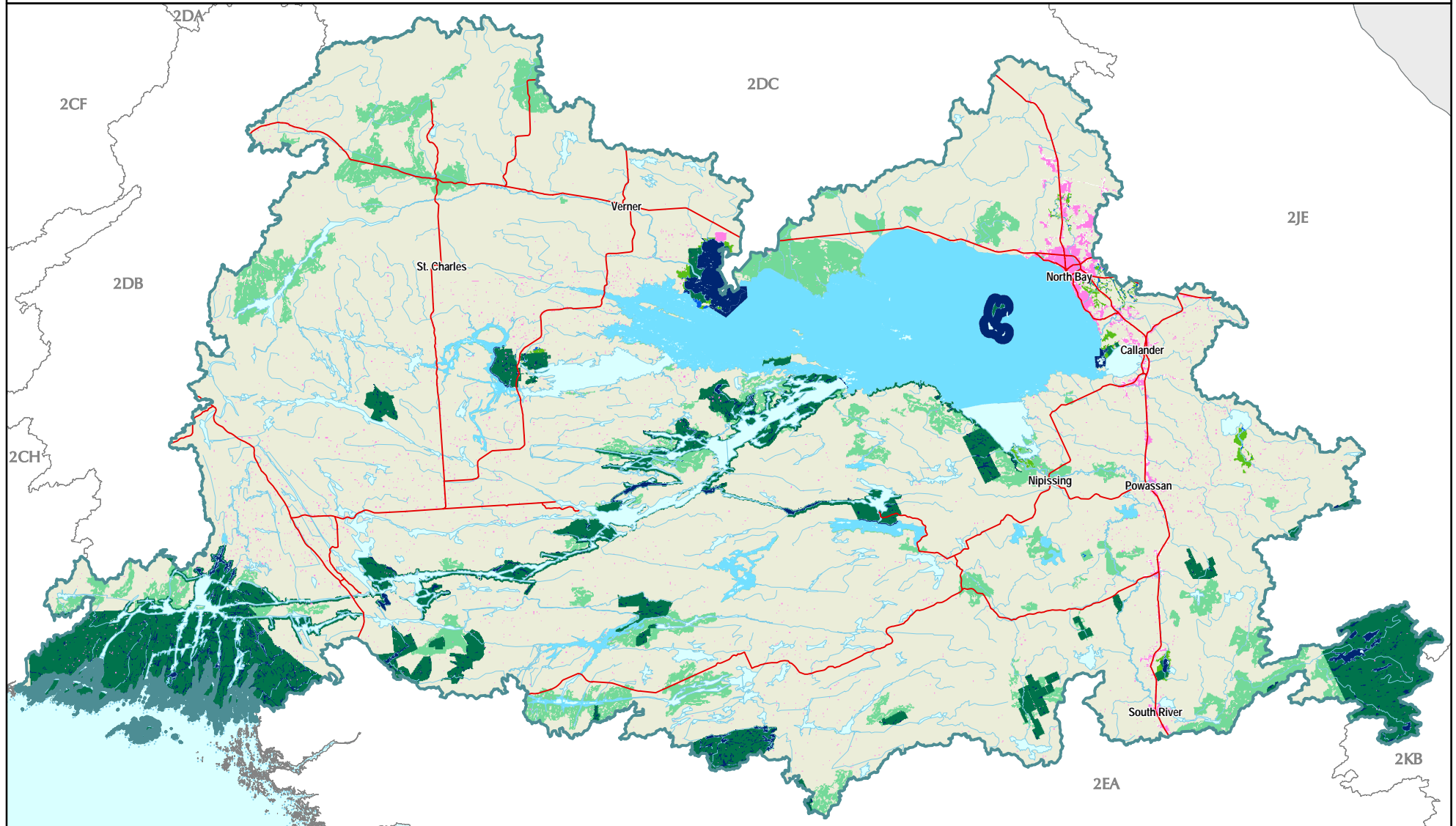
- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Documented extant vegetation communities and significant species information for tertiary watershed 2DD

Number of pops in 2DD	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in Parks and PAs	% of pops in Parks and PAs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species														
1	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	1	100	1	100	1	100	secondary
1	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S4B,SZN	NAR	END-R	SAR	1	100	1	100	1	100	secondary
1	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	0	1	100	1	100	secondary
1	<i>Ichthyomyzon fossor</i>	Northern Brook Lamprey	G4	S3	SC	SC	SAR	0	0	0	0	0	0	secondary
1	<i>Acipenser fulvescens</i>	Lake Sturgeon	G3G4	S3	SC	NAR	GRank SAR	1	100	1	100	1	100	2
3	<i>Graptemys geographica</i>	Northern Map Turtle	G5	S3	SC	SC	SAR	1	33	1	33	1	33	secondary
1	<i>Sternotherus odoratus</i>	Stinkpot	G5	S3	THR	THR	SAR	0	0	0	0	0	0	secondary
Communities														
3	Atlantic Coastal Plain Shallow Marsh Type		G2?	S3			GRank	0	0	0	0	3	100	all viable

Ecological systems summary for tertiary watershed 2DD

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	3083.06	0.35	3016.25	97.83	3017.06	97.86	3016.94	97.86
Stream Systems	681068.44	76.97	70639.88	10.37	126052.31	18.51	126030.25	18.50
Lake Systems	111927.88	12.65	9742.56	8.70	84013.81	75.06	84013.81	75.06
Wetland Systems	80075.94	9.05	9045.94	11.30	10183.38	12.72	10183.38	12.72
Tertiary watershed	884823.69	100.00	96233.69	10.88	227055.38	25.66	227033.31	25.66

Ecological systems details for tertiary watershed 2DD

System Integer	# of patches in 2DD	Total area (ha) in 2DD	% of total area in 2DD	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems													
Coastal Systems													
101	48	549.44	0.06	51	541.31	98.52	51	541.31	98.52	107	541.50	541.50	98.56
104	43	198.50	0.02	45	195.31	98.39	45	195.31	98.39	65	195.75	195.75	98.61
108	2	5.94	0.00	2	5.94	100.00	2	5.94	100.00	3	5.94	5.94	100.00

System Integer	# of patches in 2DD	Total area (ha) in 2DD	% of total area in 2DD	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued													
Coastal Systems continued													
113	21	29.19	0.00	21	29.19	100.00	21	29.19	100.00	35	29.19	29.19	100.00
116	15	22.19	0.00	15	22.19	100.00	15	22.19	100.00	20	22.19	22.19	100.00
125	123	1743.63	0.20	125	1691.94	97.04	125	1691.94	97.04	214	1692.00	1692.00	97.04
199	95	534.19	0.06	94	530.38	99.29	94	530.38	99.29	131	530.38	530.38	99.29
Stream Systems													
201	12	1197.44	0.14	2	1.44	0.12	4	1.81	0.15	10	793.44	793.44	66.26
202	14	1311.63	0.15			0.00			0.00	3	443.19	443.19	33.79
203	122	8366.75	0.95	9	75.50	0.90	10	75.56	0.90	16	625.63	625.63	7.48
204	25	2936.25	0.33	5	66.25	2.26	5	66.25	2.26	10	2441.75	2438.81	83.16
205	84	4360.94	0.49	19	265.25	6.08	19	265.25	6.08	36	1217.81	1217.81	27.93
206	74	11462.19	1.30	11	107.63	0.94	56	206.06	1.80	94	746.38	746.38	6.51
207	2	359.25	0.04			0.00			0.00	4	359.25	359.25	100.00
208	318	21817.19	2.47	97	1526.50	7.00	124	1582.06	7.25	197	2500.63	2500.63	11.46
209	158	4835.94	0.55	26	594.69	12.30	31	596.94	12.34	46	992.94	992.94	20.53
210	114	18087.88	2.04	15	2198.06	12.15	42	2270.94	12.56	73	2862.88	2862.88	15.83
211	230	15064.81	1.70	27	375.44	2.49	33	381.00	2.53	51	744.56	744.56	4.94
212	82	6908.44	0.78	23	1145.50	16.58	24	1147.06	16.60	37	1916.81	1916.81	27.75
213	2076	143498.13	16.22	347	12354.13	8.61	503	12543.44	8.74	802	13223.31	13223.31	9.21
214	1439	114561.81	12.95	271	9915.75	8.66	314	10039.06	8.76	450	11916.00	11916.00	10.40
215	47	10069.13	1.14	9	541.31	5.38	14	652.69	6.48	32	2762.38	2762.38	27.43
216	99	9263.13	1.05	10	573.50	6.19	13	573.88	6.20	26	2424.31	2424.31	26.17
217	479	69799.06	7.89	70	7527.06	10.78	125	7559.38	10.83	228	8175.00	8175.00	11.71
218	297	33087.50	3.74	59	2313.38	6.99	60	2323.31	7.02	101	7370.56	7370.56	22.28
219	94	20787.94	2.35	11	806.38	3.88	12	806.44	3.88	31	1207.56	1207.56	5.81
220	59	8181.81	0.92	16	483.00	5.90	16	494.13	6.04	14	2514.44	2514.44	30.73
221	400	64099.13	7.24	105	7518.50	11.73	117	7632.63	11.91	194	10651.63	10651.63	16.62
222	23	3260.00	0.37	6	64.94	1.99	6	64.94	1.99	17	1476.06	1476.06	45.28
223	18	4324.00	0.49			0.00			0.00	7	4067.06	4067.06	94.06
224	18	4347.19	0.49	1	66.63	1.53	1	66.63	1.53	9	2880.69	2880.69	66.27
225	8	1132.81	0.13	1	93.06	8.22	1	93.06	8.22	11	868.06	868.06	76.63
226	28	4694.38	0.53	4	175.00	3.73	15	178.25	3.80	27	2612.00	2612.00	55.64
227	181	15521.75	1.75	23	1004.88	6.47	23	1004.88	6.47	61	4077.00	4077.00	26.27
228	7	148.50	0.02	2	2.31	1.56	2	2.31	1.56	3	77.69	77.69	52.31

System Integer	# of patches in 2DD	Total area (ha) in 2DD	% of total area in 2DD	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued													
Stream Systems continued													
229	1	50.50	0.01			0.00			0.00	1	50.50	50.50	100.00
230	13	2191.56	0.25	1	0.75	0.03	6	4.63	0.21	8	762.81	762.81	34.81
231	8	316.88	0.04	2	7.94	2.50	6	9.69	3.06	7	291.56	291.56	92.01
233	1	122.56	0.01			0.00			0.00	1	122.56	122.56	100.00
235	5	265.44	0.03			0.00			0.00	5	259.75	259.75	97.86
238	3	116.44	0.01			0.00			0.00	5	116.44	110.00	100.00
241	17	66.13	0.01	6	61.63	93.19	6	65.25	98.68	18	66.13	66.13	100.00
242	15	209.88	0.02	11	74.88	35.68	11	74.88	35.68	11	76.50	76.50	36.45
244	1	45.25	0.01			0.00			0.00				0.00
246	1	35.69	0.00	1	28.94	81.09	1	28.94	81.09	1	28.94	28.94	81.09
247	16	826.06	0.09			0.00			0.00	3	779.31	779.31	94.34
248	60	5756.56	0.65	43	696.13	12.09	44	696.56	12.10	52	1483.31	1483.31	25.77
249	6	416.94	0.05	4	229.94	55.15	4	229.94	55.15	6	416.50	416.50	99.90
250	169	31500.63	3.56	60	9584.50	30.43	79	9649.44	30.63	113	14087.19	14087.19	44.72
253	25	3745.56	0.42	21	2917.56	77.89	21	2917.56	77.89	25	3630.75	3630.75	96.93
254	299	30060.69	3.40	79	5384.19	17.91	148	5644.31	18.78	215	11240.25	11227.56	37.39
Lake Systems													
306	44	74011.81	8.36	21	4725.88	6.39	24	4800.50	6.49	70	73999.63	73999.63	99.98
309	37	2834.94	0.32	7	74.88	2.64	7	74.88	2.64	44	2815.56	2815.56	99.32
315	77	5824.69	0.66	2	5.50	0.09	3	13.56	0.23	57	1777.38	1777.38	30.51
321	12	363.38	0.04	12	363.38	100.00	12	363.38	100.00	17	363.38	363.38	100.00
322	1	219.44	0.02			0.00			0.00	1	219.44	219.44	100.00
325	115	111.44	0.01	22	52.13	46.78	22	52.13	46.78	33	52.19	52.19	46.83
326	700	1021.94	0.12	38	175.38	17.16	46	178.19	17.44	75	178.19	178.19	17.44
327	49	161.69	0.02	14	137.94	85.31	14	137.94	85.31	24	137.94	137.94	85.31
328	107	74.00	0.01	16	13.63	18.41	18	13.88	18.75	22	13.88	13.88	18.75
329	1980	1616.06	0.18	401	548.38	33.93	411	551.56	34.13	697	551.56	551.56	34.13
330	277	706.69	0.08	18	25.63	3.63	25	28.44	4.02	39	207.75	207.75	29.40
331	621	516.38	0.06	35	37.25	7.21	48	44.06	8.53	58	44.06	44.06	8.53
332	28	44.88	0.01	12	21.81	48.61	12	21.81	48.61	13	21.81	21.81	48.61
333	13073	20474.38	2.31	1542	2863.69	13.99	1606	2957.63	14.45	2781	3001.81	3001.81	14.66
334	894	567.56	0.06	190	185.81	32.74	196	192.44	33.91	231	192.50	192.50	33.92
335	74	123.31	0.01	1	1.81	1.47	2	2.25	1.82	7	7.06	7.06	5.73

System Integer	# of patches in 2DD	Total area (ha) in 2DD	% of total area in 2DD	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued													
Lake Systems continued													
336	5042	3248.00	0.37	478	275.94	8.50	516	302.63	9.32	596	422.38	422.38	13.00
Wetland Systems													
405	478	1680.38	0.19	25	60.38	3.59	25	60.38	3.59	32	112.69	112.69	6.71
406	305	3213.13	0.36	26	495.50	15.42	28	507.69	15.80	38	1044.75	1044.75	32.52
407	82	220.94	0.02	1	3.13	1.41	1	3.13	1.41	6	9.31	9.31	4.21
408	134	1275.44	0.14	4	57.13	4.48	4	57.13	4.48	9	323.13	323.13	25.33
409	3530	10589.44	1.20	376	858.31	8.11	402	921.44	8.70	465	944.19	944.19	8.92
410	2988	17287.25	1.95	379	1485.06	8.59	397	1677.44	9.70	459	1930.63	1930.63	11.17
Non-Target Ecological Systems													
Wetland Systems													
411	9445	17530.63	1.98	1137	2278.94	13.00	1236	2515.69	14.35	1535	2515.69	2515.69	14.35
412	7105	28278.75	3.20	890	2880.94	10.19	974	3303.06	11.68	1263	3303.00	3303.00	11.68
Unclassified Ecological Systems													
2	56	1856.75	0.21	13	690.75	37.20	13	690.75	37.20	15	690.81	690.81	37.21
3	15	7.31	0.00	15	7.31	100.00	15	7.31	100.00	19	7.31	7.31	100.00
5	1363	2847.56	0.32	1365	2830.94	99.42	1365	2830.94	99.42	2170	2830.94	2830.94	99.42
6	6137	5820.81	0.66	909	909.94	15.63	947	958.13	16.46	1205	957.88	957.88	16.46

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Magnetawan

Tertiary Watershed 2EA

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area:	602,550 hectares (1,488,901 acres)
Land Ownership:	Crown Land ~ 50%, Private Land ~ 40% First Nations Lands ~ 10%
Planning Authority:	3% Nipissing District 97% Parry Sound District

General Description:

Tertiary watershed 2EA drains into Georgian Bay. There are approximately 14,858 hectares of coastal areas, 462,195 hectares of stream systems, 52,714 hectares of lakes and 58,900 hectares of wetlands. Watershed 2EA contains a large amount of coastal area along the Thirty Thousand Islands region of Georgian Bay. Notable islands include Shawanaga Island, Hertzberg Island, Parry Island and Franklin Island. This area also encompasses many bays and inlets, such as Byng Inlet, Shawanaga Inlet and the large Parry Sound. Mixed forests are dominant throughout the watershed, while sparse coniferous forests occur through much of the western portions. The eastern reaches of the watershed consist primarily of dense deciduous forest. The wetlands in the region are generally treed bogs.

Land Use:

The town of Parry Sound is the largest community in the watershed. Land use of the region consists primarily of a few developed areas along major highways, and small number of pastures scattered in the centre of the watershed. There is some forestry activity in the area.

Protection and Conservation:

The total area of protected and conservation lands in tertiary watershed 2EA



is 91,228 hectares, constituting approximately 15% of the watersheds total area. The majority of these lands (90,414 ha) are located in provincially protected areas. There are about 5,455 hectares of protected coastal areas 94,342 hectares of protected stream systems, 14,839 hectares of protected lakes and 8,948 hectares of protected wetlands.

Species and Vegetation Community Targets:

Three species targets are known to occur in watershed 2EA: Spotted Turtle (*Clemmys guttata*), Northern Map Turtle (*Graptemys geographica*) and Stinkpot (*Sternotherus odoratus*). There are records of Spotted Turtle and Stinkpot in protected areas. Four rare vegetation community types are documented in watershed 2EA: Atlantic Coastal Plain Shallow Marsh, Leatherleaf–Chain fern/St. John’s-wort Shrub Fen, Mountain Holly Organic Thicket Swamp, and Virginia Chain Fern Open Bog. All of these vegetation communities have been recorded in protected areas within this watershed.

Conservation Blueprint:

The Conservation Blueprint includes 5,455 hectares of coastal areas, 94,342 hectares of stream systems, 14,839 hectares of lakes and 8,948 hectares of wetlands. The Conservation Blueprint also includes all of the rare vegetation community occurrences for Atlantic Coastal Plain Shallow Marsh, Leatherleaf – Chain fern/St. John’s-wort Shrub Fen, Mountain Holly Organic Thicket Swamp, and Virginia Chain Fern Open Bog.

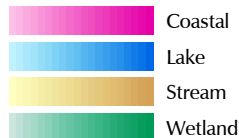
Great Lakes Conservation Blueprint for Biodiversity

MAGNETAWAN WATERSHED 2EA

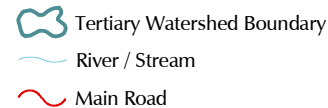
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Aquatic Ecological Systems



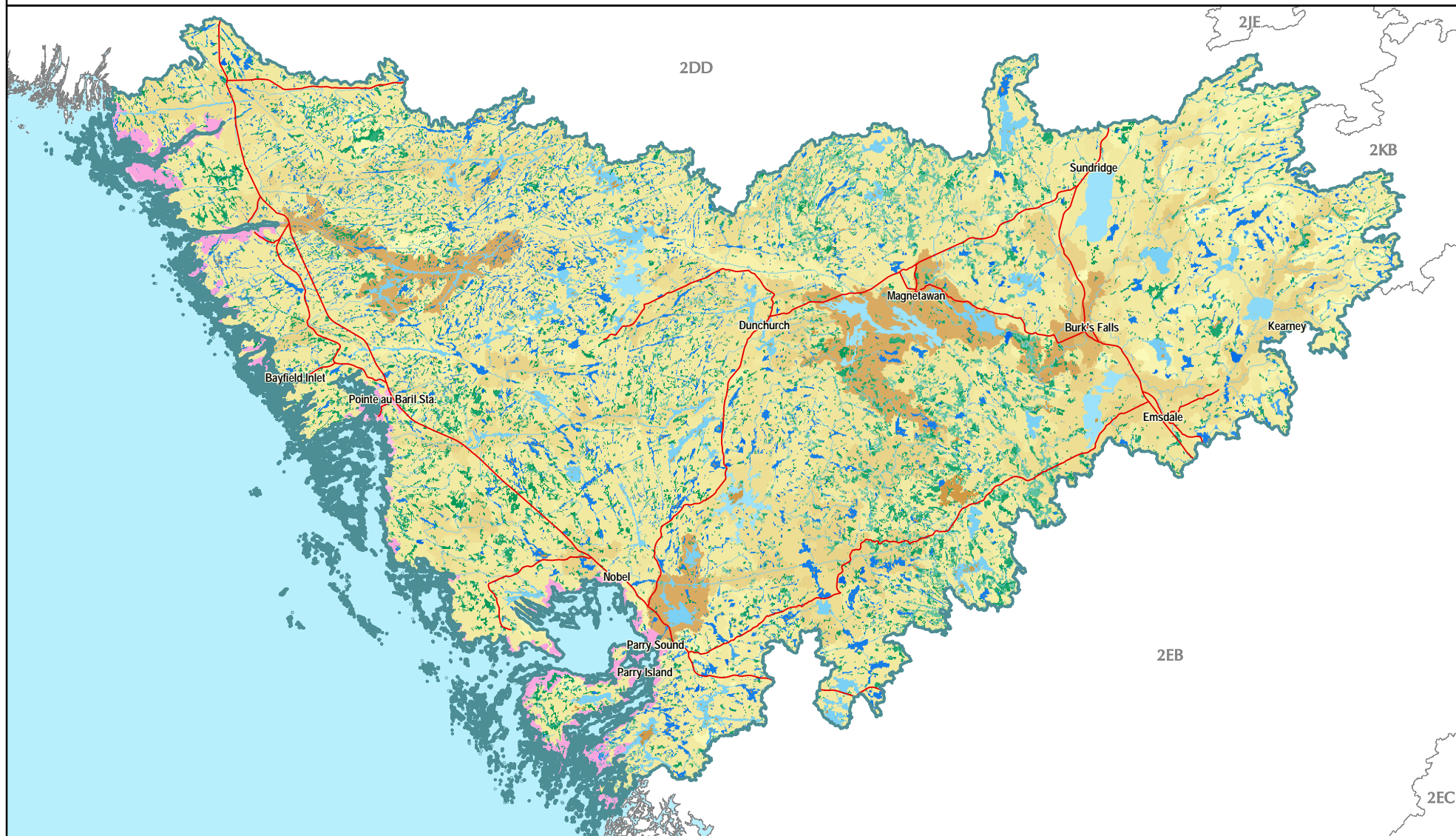
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

MAGNETAWAN WATERSHED 2EA

5 0 5 10 15 20 km



Aquatic Conservation Blueprint

-  Parks and Protected Areas
-  Additional Designated Natural Heritage Areas
-  Priority Stewardship Areas - Natural
-  Priority Stewardship Areas - Non-Natural

Other Information

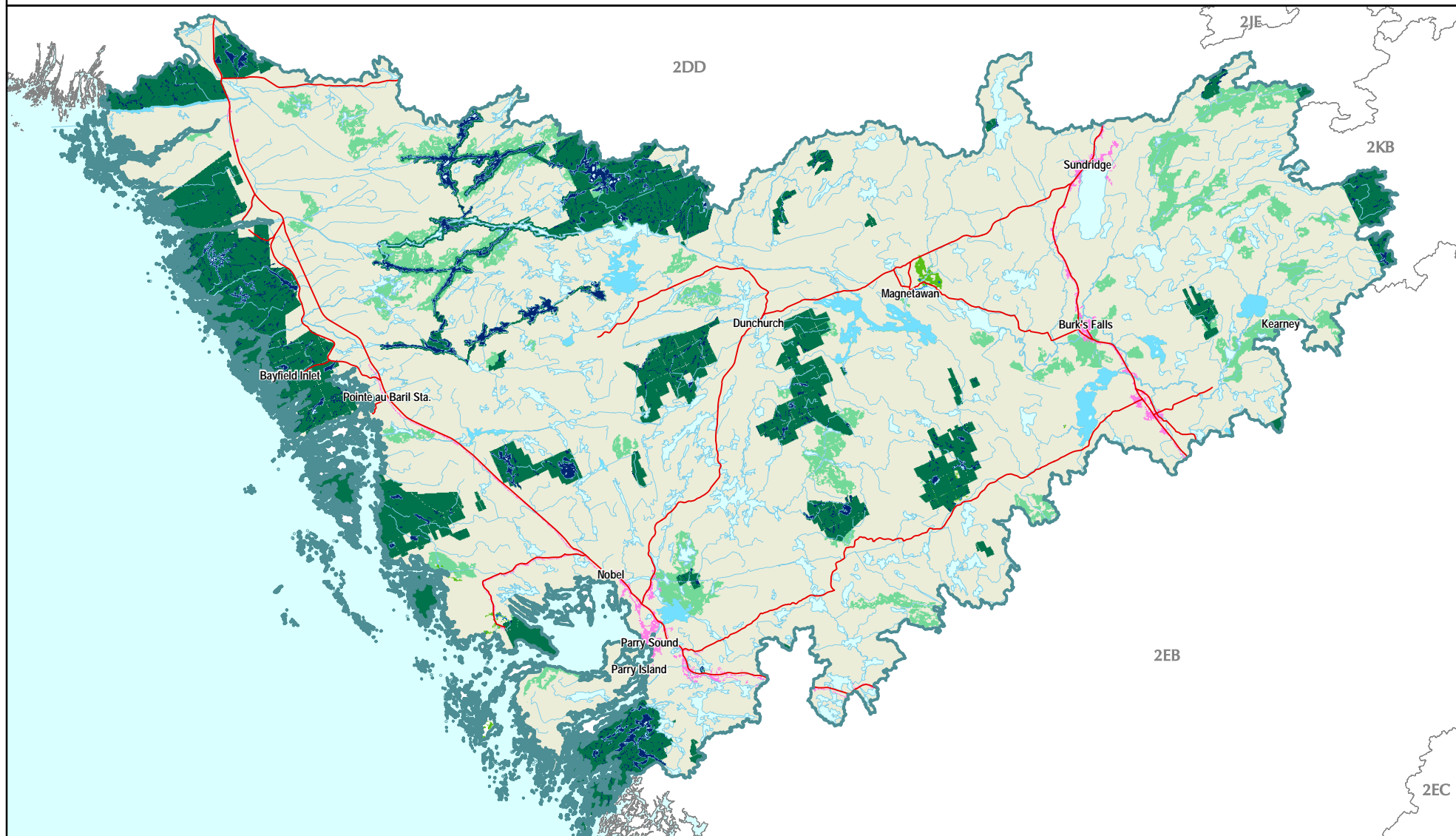
-  Tertiary Watershed Boundary
-  Lake / Water Course
-  Main Road
-  Urban Area
-  Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Documented extant vegetation communities and significant species information for tertiary watershed 2EA

Number of pops in 2EA	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in Parks and PAs	% of pops in Parks and PAs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species														
6	<i>Clemmys guttata</i>	Spotted Turtle	G5	S3	END	SC	SAR	1	17	1	17	1	17	secondary
1	<i>Graptemys geographica</i>	Northern Map Turtle	G5	S3	SC	SC	SAR	0	0	0	0	0	0	secondary
2	<i>Sternotherus odoratus</i>	Stinkpot	G5	S3	THR	THR	SAR	2	100	2	100	2	100	secondary
Communities														
9	Atlantic Coastal Plain Shallow Marsh Type		G2?	S3			GRank	1	11	1	11	9	100	all viable
1	Leatherleaf - Chain fern / St. John's-wort Shrub Fen		G3G4	S3			GRank	1	100	1	100	1	100	all viable
2	Mountain Holly Organic Thicket Swamp Type		G?	S3S4			GRank	1	50	1	50	2	100	3
2	Virginia Chain Fern Open Bog Type		G3G4	S3			GRank	2	100	2	100	2	100	all viable

Ecological systems summary for tertiary watershed 2EA

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	14858.19	2.47	4974.44	33.48	5455.50	36.72	5455.19	36.72
Stream Systems	462195.56	76.71	63682.75	13.78	94342.94	20.41	94231.75	20.39
Lake Systems	52714.31	8.75	8511.69	16.15	14839.75	28.15	14839.75	28.15
Wetland Systems	58900.69	9.78	8852.75	15.03	8948.25	15.19	8948.25	15.19
Tertiary watershed	602550.69	100.00	91228.31	15.14	128760.56	21.37	128649.38	21.35

Ecological systems details for tertiary watershed 2EA

System Integer	# of patches in 2EA	Total area (ha) in 2EA	% of total area in 2EA	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems													
Coastal Systems													
101	57	398.50	0.07	36	82.19	20.62	36	82.19	20.62	80	86.13	86.13	21.61
102	3	27.13	0.00	1	17.06	62.90	1	17.06	62.90	6	27.13	27.13	100.00
104	435	1160.75	0.19	224	406.63	35.03	228	411.50	35.45	380	412.00	412.00	35.49
105	31	198.31	0.03	26	45.19	22.79	26	45.19	22.79	34	47.81	47.81	24.11

System Integer	# of patches in 2EA	Total area (ha) in 2EA	% of total area in 2EA	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued													
Coastal Systems continued													
106	1	1.50	0.00			0.00			0.00	1	1.50	1.50	100.00
108	165	515.81	0.09	50	107.50	20.84	51	109.00	21.13	91	111.38	111.38	21.59
113	122	359.63	0.06	65	200.56	55.77	71	201.75	56.10	120	201.75	201.75	56.10
114	2	8.69	0.00			0.00			0.00	3	8.69	8.69	100.00
115	4	37.00	0.01	3	16.56	44.76	5	21.25	57.43	8	28.25	28.25	76.35
116	205	433.38	0.07	113	245.81	56.72	114	249.88	57.66	162	251.13	251.13	57.95
125	260	9244.38	1.53	128	3051.44	33.01	130	3055.44	33.05	200	3066.63	3066.63	33.17
126	8	435.63	0.07			0.00			0.00	3	431.63	431.63	99.08
127	1	2.19	0.00	1	2.19	100.00	1	2.19	100.00	1	2.19	2.19	100.00
199	253	2007.06	0.33	111	766.81	38.21	112	778.38	38.78	171	778.38	778.38	38.78
Stream Systems													
201	30	728.38	0.12	3	25.88	3.55	3	25.88	3.55	16	359.69	359.69	49.38
202	7	590.06	0.10			0.00			0.00	3	423.38	423.38	71.75
203	44	2772.31	0.46	15	105.31	3.80	15	105.31	3.80	28	539.88	539.88	19.47
204	20	1164.63	0.19	3	47.94	4.12	3	47.94	4.12	5	432.50	432.50	37.14
205	85	2941.44	0.49	13	480.63	16.34	13	480.63	16.34	36	2110.63	2110.63	71.75
206	19	2384.88	0.40	1	15.63	0.66	1	15.63	0.66	4	1948.69	1948.69	81.71
207	10	1091.69	0.18			0.00			0.00	4	670.50	670.50	61.42
208	147	7904.31	1.31	19	337.69	4.27	19	337.69	4.27	47	780.38	780.38	9.87
209	256	14245.94	2.36	81	1739.75	12.21	84	1741.25	12.22	137	1896.88	1896.88	13.32
210	49	4110.56	0.68	3	367.19	8.93	3	367.19	8.93	5	1356.69	1356.69	33.00
211	126	6225.25	1.03	9	207.56	3.33	9	207.56	3.33	30	1044.38	1044.38	16.78
212	63	4288.69	0.71	7	414.88	9.67	7	414.88	9.67	13	765.44	765.44	17.85
213	1479	138169.06	22.93	480	18879.63	13.66	516	18909.75	13.69	935	18910.69	18910.69	13.69
214	1364	111033.69	18.43	488	27064.75	24.38	513	27098.44	24.41	933	27456.44	27456.44	24.73
215	6	375.06	0.06			0.00			0.00	3	374.19	374.19	99.77
216	27	848.13	0.14	2	21.88	2.58	2	21.88	2.58	10	697.63	697.63	82.25
217	336	25514.50	4.23	98	2123.31	8.32	96	2126.38	8.33	167	3239.56	3239.56	12.70
218	192	11933.00	1.98	26	1408.31	11.80	45	1463.00	12.26	73	2273.69	2273.69	19.05
219	35	7735.38	1.28	5	261.25	3.38	5	261.25	3.38	35	2438.25	2438.25	31.52
220	33	4003.75	0.66			0.00			0.00	17	986.38	986.38	24.64
221	346	51010.38	8.47	61	6033.13	11.83	67	6051.38	11.86	132	8980.56	8976.63	17.61
222	7	522.25	0.09			0.00			0.00	8	491.06	491.06	94.03

System Integer	# of patches in 2EA	Total area (ha) in 2EA	% of total area in 2EA	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued													
Stream Systems continued													
223	4	378.13	0.06			0.00			0.00	5	340.00	336.81	89.92
224	12	1.19	0.00	5	0.63	52.63	5	0.63	52.63	14	0.94	0.94	78.95
225	7	1708.00	0.28	2	0.13	0.01	2	0.13	0.01	5	1641.69	1641.69	96.12
226	23	1676.94	0.28	58	2354.94	140.43	59	2356.50	140.52	5	1172.13	1172.13	69.90
227	236	30813.25	5.11	6	80.88	0.26	7	81.19	0.26	108	2610.19	2610.19	8.47
228	16	309.94	0.05			0.00			0.00	6	218.19	218.19	70.40
230	2	239.25	0.04			0.00			0.00	2	239.25	239.25	100.00
231	13	222.88	0.04			0.00			0.00	4	139.19	139.19	62.45
233	6	635.94	0.11			0.00			0.00	3	601.44	601.44	94.57
235	1	148.38	0.02			0.00			0.00	1	148.38	148.38	100.00
236	1	6.25	0.00			0.00			0.00				0.00
238	1	47.44	0.01			0.00			0.00				0.00
241	2	143.88	0.02			0.00			0.00	2	143.88	143.69	100.00
242	21	367.06	0.06	2	16.19	4.41	2	16.19	4.41	5	156.81	156.81	42.72
243	1	535.63	0.09			0.00			0.00	1	535.63	479.94	100.00
248	37	4000.00	0.66	8	147.50	3.69	21	423.50	10.59	57	1370.13	1370.13	34.25
249	3	116.94	0.02			0.00			0.00	3	116.94	98.81	100.00
250	156	20562.38	3.41	53	1092.44	5.31	60	1103.19	5.37	91	6163.31	6133.25	29.97
253	6	542.88	0.09			0.00			0.00	7	542.00	542.00	99.84
254	3	2.63	0.00			0.00			0.00				0.00
Lake Systems													
309	38	7548.56	1.25	5	1.81	0.02	5	1.81	0.02	27	4311.13	4311.13	57.11
313	1	579.31	0.10			0.00			0.00	1	579.31	579.31	100.00
315	241	14389.25	2.39	87	3186.69	22.15	90	3199.25	22.23	187	4116.19	4116.19	28.61
317	1	357.13	0.06			0.00			0.00	1	357.13	357.13	100.00
325	44	24.88	0.00	2	1.50	6.03	2	1.50	6.03	2	1.44	1.44	5.78
326	456	1199.06	0.20	98	114.00	9.51	97	118.00	9.84	168	123.00	123.00	10.26
327	29	15.75	0.00	1	1.13	7.14	1	1.13	7.14	3	1.13	1.13	7.14
328	25	7.69	0.00	3	1.44	18.70	3	1.44	18.70	3	1.44	1.44	18.70
329	908	917.75	0.15	283	286.56	31.22	283	286.56	31.22	505	286.56	286.56	31.22
330	236	484.44	0.08	37	90.31	18.64	37	90.31	18.64	71	125.56	125.56	25.92
331	152	207.31	0.03	20	19.31	9.32	20	19.31	9.32	23	19.31	19.31	9.32
332	13	12.88	0.00	1	0.19	1.46	1	0.19	1.46	1	0.19	0.19	1.46

System Integer	# of patches in 2EA	Total area (ha) in 2EA	% of total area in 2EA	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued													
Lake Systems continued													
333	9563	24192.75	4.02	1913	4360.38	18.02	1934	4371.75	18.07	3448	4493.19	4493.19	18.57
334	413	168.00	0.03	88	47.25	28.13	88	47.25	28.13	109	48.25	48.25	28.72
335	87	203.25	0.03	3	2.19	1.08	3	2.19	1.08	5	4.94	4.94	2.43
336	2563	2392.94	0.40	454	354.50	14.81	458	364.19	15.22	528	364.19	364.19	15.22
Wetland Systems													
405	1790	5704.94	0.95	316	785.94	13.78	325	825.25	14.47	517	825.25	825.25	14.47
406	1212	11694.13	1.94	199	1080.50	9.24	206	1114.81	9.53	283	1123.56	1123.56	9.61
408	2	11.44	0.00			0.00			0.00				0.00
409	2309	5414.13	0.90	337	650.63	12.02	348	661.56	12.22	435	663.44	663.44	12.25
410	2204	11004.00	1.83	370	1477.13	13.42	379	1509.94	13.72	452	1594.00	1594.00	14.49
Non-Target Ecological Systems													
Coastal Systems													
121	3	2.75	0.00			0.00			0.00				0.00
124	18	25.50	0.00	1	0.63	2.45	1	0.63	2.45	2	0.63	0.63	2.45
Wetland Systems													
411	3744	7615.63	1.26	714	1483.69	19.48	724	1507.25	19.79	871	1508.06	1508.06	19.80
412	4123	17456.44	2.90	780	3170.31	18.16	798	3233.94	18.53	1048	3233.94	3233.94	18.53
Unclassified Ecological Systems													
2	13	143.31	0.02	1	25.44	17.75	1	25.44	17.75	2	25.44	25.44	17.75
3	33	13.38	0.00	16	6.81	50.93	16	6.81	50.93	25	6.81	6.81	50.93
5	4257	10741.13	1.78	1348	3765.75	35.06	1406	3840.88	35.76	2038	3808.44	3808.44	35.46
6	4610	3140.81	0.52	1148	1331.56	42.40	1160	1365.81	43.49	1391	1365.69	1365.69	43.48

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Muskoka

Tertiary Watershed 2EB

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area:	562,562 ha (1,390,090 acres)
Land Ownership:	Crown Land ~ 45%, Private Land ~ 50% First Nations Lands ~ 5%
Planning Authority:	52% Muskoka District, 27% Parry Sound District, 11% Nipissing District, 10% Haliburton County

General Description:

Tertiary watershed 2EB drains into Georgian Bay in Lake Huron. There are approximately 6,761 hectares of coastal areas, 430,424 hectares of stream systems, 79,796 hectares of lakes and 34,271 hectares of wetlands. The area has a significant stretch of Georgian Bay coastline, including many small islands. It also contains numerous lakes, notably Lake Joseph, Lake Muskoka, Lake Rosseau and Lake of Bays. Mixed forests are dominant overall; however dense deciduous forests dominate in the eastern reaches of the catchment. Small amounts of sparse coniferous forest occur in the western portions of the watershed. There are also treed bogs in the region.

Land Use:

Huntsville and Bracebridge are the largest communities in the watershed. A number of smaller settlements are also present. Tourism is the primary land use in the area, predominantly due to the many cottages and lakes in the region. There is some forestry activity, and developed lands are largely limited to linear stretches alongside major highways and lakes.

Protection and Conservation:

The total area of protected and conservation lands in tertiary watershed 2EB is 98,693 hectares, constituting approximately 17% of the watershed's total area. The majority of these lands (96,340 ha) are located in provincially protected areas. Approximately 439 hectares of provincially significant life science ANSIs coincide with conservation reserves. There are



approximately 2,865 hectares of protected coastal areas, 75,601 hectares of protected stream systems, 10,705 hectares of protected lakes and 6,685 hectares of protected wetlands.

Species and Vegetation Community Targets:

Five species targets are known to occur in watershed 2EB: Branched Bartonian (*Bartonia paniculata*), Ram's-head Lady's-slipper (*Cypripedium arietinum*), Spotted Turtle (*Clemmys guttata*), Northern Map Turtle (*Graptemys geographica*) and Stinkpot (*Sternotherus odoratus*). There are records of Spotted Turtle and Northern Map Turtle in protected areas. Twelve rare vegetation communities have been documented in this watershed, of which 10 have been recorded in protected areas.

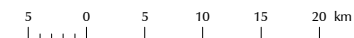
Conservation Blueprint:

The Conservation Blueprint includes 3,480 hectares of coastal areas, 123,296 hectares of stream systems, 35,550 hectares of lakes and 7,207 hectares of wetlands. The Conservation Blueprint also includes three occurrences of Branched Bartonian and two populations of Ram's-head Lady's-slipper. Secondary targets captured in the portfolio were; two records of Spotted Turtle, nine populations of Northern Map Turtle and eight Stinkpot sites. All viable occurrences for the documented target vegetation communities were also included in the portfolio.

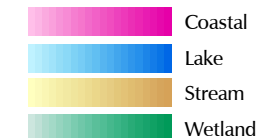


Great Lakes Conservation Blueprint for Biodiversity

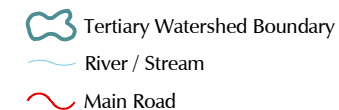
MUSKOKA WATERSHED 2EB



Aquatic Ecological Systems



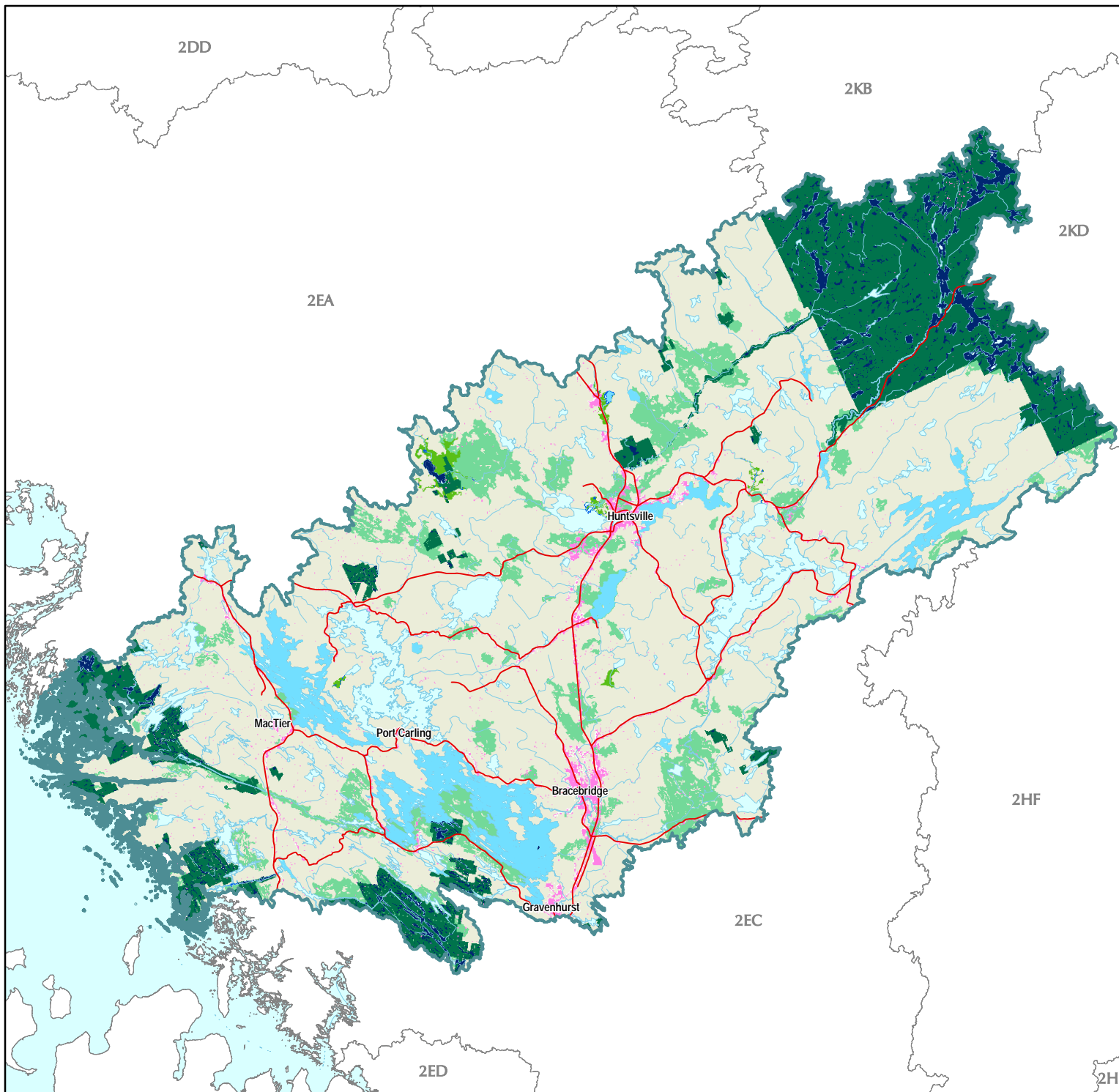
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

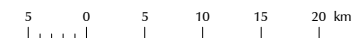
For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

MUSKOKA WATERSHED 2EB



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Documented extant vegetation communities and significant species information for tertiary watershed 2EB

# of pops in 2EB	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in Parks and PAs	% of pops in Parks and PAs	# of pops in PS LS-ANSIs	% of pops in PS LS-ANSIs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species																
6	<i>Clemmys guttata</i>	Spotted Turtle	G5	S3	END	SC	SAR	1	17	0	0	1	17	2	33	secondary
33	<i>Graptemys geographica</i>	Northern Map Turtle	G5	S3	SC	SC	SAR	4	12	0	0	4	12	9	27	secondary
16	<i>Sternotherus odoratus</i>	Stinkpot	G5	S3	THR	THR	SAR	0	0	0	0	0	0	8	50	secondary
4	<i>Bartonia paniculata</i> ssp. <i>paniculata</i>	Branched Bartonia	G5T5	S1	THR	THR	SAR	0	0	0	0	0	0	3	75	3
1	<i>Cypripedium arietinum</i>	Ram's-head Lady's-slipper	G3	S3			GRank	0	0	0	0	0	0	1	100	2
Communities																
20	Atlantic Coastal Plain Shallow Marsh Type		G2?	S3			GRank	5	25	1	5	5	25	20	100	all viable
3	Buttonbush - Sweet Gale Mineral Thicket Swamp Type		G?	S2S3?			GRank	3	100	0	0	3	100	3	100	3
2	Buttonbush Mineral Thicket Swamp Type		G4	S3			SRank	1	50	0	0	1	50	2	100	3
3	Buttonbush Organic Thicket Swamp Type		G4	S3			SRank	2	67	0	0	2	67	3	100	3
1	Few-seeded Sedge Graminoid Bog Type		G3G4	S5			GRank	1	100	0	0	1	100	1	100	all viable
1	Graminoid Coastal Meadow Marsh Type		G2?	S2			GRank	0	0	0	0	0	0	1	100	all viable
1	Leatherleaf - Chain fern / St. John's-wort Shrub Fen		G3G4	S3			GRank	1	100	0	0	1	100	1	100	all viable
5	Leatherleaf - Forb Shrub Fen Type		G5	S5			high quality	3	60	0	0	3	60	3	60	secondary
4	Mountain Holly Organic Thicket Swamp Type		G?	S3S4			GRank	4	100	0	0	4	100	4	100	3
4	Mountain Holly Shrub Fen Type		G3G4	S3S4			GRank	4	100	0	0	4	100	4	100	all viable
8	Virginia Chain Fern Open Bog Type		G3G4	S3			GRank	6	75	0	0	6	75	8	100	all viable
1	White Pine - White Birch Mineral Mixed Swamp Type		G3G4	S3			GRank	0	0	0	0	0	0	1	100	all viable

Ecological systems summary for tertiary watershed 2EB

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	6761.81	1.20	2865.81	42.38	3480.25	51.47	3480.13	51.47
Stream Systems	430424.75	76.51	75601.38	17.56	123296.94	28.65	122009.19	28.35
Lake Systems	79796.25	14.18	10705.38	13.42	35550.75	44.55	35550.75	44.55
Wetland Systems	34271.38	6.09	6685.56	19.51	7207.38	21.03	7207.38	21.03
Tertiary watershed	562562.38	100.00	98693.38	17.54	172411.19	30.65	171122.81	30.42

Ecological systems details for tertiary watershed 2EB

System Integer	# of patches in 2EB	Total area (ha) in 2EB	% of total area in 2EB	# of patches in federal lands	Total area (ha) in federal lands	% of system in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																			
Coastal Systems																			
101	23	257.13	0.05			0.00	13	36.00	14.00			0.00	13	36.00	14.00	14	62.13	62.13	24.16
104	94	394.75	0.07			0.00	40	102.00	25.84			0.00	40	102.00	25.84	80	185.88	185.88	47.09
105	7	34.94	0.01			0.00	2	16.38	46.87			0.00	2	16.38	46.87	3	19.44	19.44	55.64
108	41	167.25	0.03			0.00	29	124.81	74.63			0.00	29	124.81	74.63	38	124.94	124.94	74.70
113	18	51.50	0.01			0.00	10	24.75	48.06			0.00	10	24.75	48.06	12	25.63	25.63	49.76
115	2	76.06	0.01			0.00	4	5.75	7.56			0.00	4	5.75	7.56	3	76.44	76.44	100.00
116	50	82.25	0.01			0.00	14	11.94	14.51			0.00	14	11.94	14.51	21	17.31	17.31	21.05
125	156	4324.81	0.77			0.00	82	2126.75	49.18			0.00	82	2126.75	49.18	130	2451.31	2451.19	56.68
127	2	99.75	0.02			0.00			0.00			0.00			0.00	2	99.75	99.75	100.00
199	101	1271.00	0.23			0.00	57	417.44	32.84			0.00	57	417.44	32.84	83	417.44	417.44	32.84
Stream Systems																			
201	14	766.00	0.14			0.00	1	84.13	10.98			0.00	1	84.13	10.98	4	435.50	435.50	56.85
202	29	1719.63	0.31			0.00	3	153.75	8.94			0.00	3	153.75	8.94	9	752.38	686.19	43.75
203	71	2889.50	0.51			0.00	8	86.63	3.00			0.00	23	131.81	4.56	38	580.88	580.88	20.10
204	29	2269.00	0.40			0.00	5	191.06	8.42			0.00	5	191.06	8.42	7	313.19	313.25	13.80
205	56	1553.25	0.28			0.00	18	406.06	26.14			0.00	20	406.44	26.17	31	668.88	666.25	43.06
206	46	3764.00	0.67			0.00	4	200.75	5.33			0.00	12	203.75	5.41	31	1479.88	1479.88	39.32
207	19	1240.19	0.22			0.00	1	89.75	7.24			0.00	1	89.75	7.24	4	783.19	783.13	63.15
208	94	9982.38	1.77			0.00	18	397.81	3.99			0.00	28	586.38	5.87	44	846.69	846.75	8.48
209	241	15180.69	2.70			0.00	92	6966.00	45.89			0.00	93	6966.06	45.89	152	6968.81	6968.88	45.91
210	80	9953.38	1.77			0.00	11	101.06	1.02	7	172.69	1.73	23	304.88	3.06	39	1000.63	1000.69	10.05
211	127	11884.19	2.11			0.00	17	1026.19	8.63			0.00	44	1135.13	9.55	60	1519.63	1519.63	12.79
212	86	7194.25	1.28			0.00	24	1888.75	26.25			0.00	24	1888.75	26.25	30	1907.50	1907.44	26.51
213	1093	101438.50	18.03			0.00	392	18720.81	18.46	19	187.63	0.18	468	19109.88	18.84	840	20651.94	20644.63	20.36
214	817	62767.75	11.16			0.00	262	15396.38	24.53	1	7.00	0.01	280	15605.88	24.86	425	16030.94	16031.25	25.54
215	33	2030.31	0.36			0.00	9	118.50	5.84	7	9.25	0.46	26	207.69	10.23	20	1758.13	1758.13	86.59
216	25	730.31	0.13			0.00	3	23.69	3.24			0.00	3	23.69	3.24	7	407.69	388.69	55.82
217	233	31479.38	5.60			0.00	69	5295.88	16.82			0.00	71	5296.00	16.82	115	7640.06	7640.00	24.27
218	118	9337.56	1.66			0.00	61	2206.19	23.63	1	12.25	0.13	76	2309.00	24.73	111	2399.44	2399.44	25.70
219	57	6036.25	1.07			0.00	27	562.31	9.32			0.00	28	562.56	9.32	47	1476.88	1476.88	24.47
220	37	6126.06	1.09			0.00	38	1064.25	17.37			0.00	38	1064.25	17.37	51	2343.31	2339.56	38.25
221	215	34330.50	6.10			0.00	98	12909.31	37.60			0.00	103	12993.56	37.85	202	15098.31	15098.25	43.98
222	5	2850.75	0.51			0.00			0.00			0.00			0.00	4	2850.19	2850.19	99.98
223	11	1159.19	0.21			0.00	5	41.19	3.55			0.00	5	41.19	3.55	7	984.63	984.63	84.94
224	2	362.19	0.06			0.00	1	8.00	2.21			0.00	1	8.00	2.21	5	362.19	320.69	100.00
225	13	3629.88	0.65			0.00	8	308.19	8.49			0.00	8	308.19	8.49	16	2969.38	2969.44	81.80
226	18	3800.94	0.68			0.00	9	328.38	8.64			0.00	9	328.38	8.64	5	1208.50	1197.00	31.79
227	147	30225.19	5.37			0.00	46	3116.19	10.31			0.00	46	3116.19	10.31	87	3820.88	3801.63	12.64
228	26	1046.13	0.19			0.00	14	337.13	32.23			0.00	14	337.13	32.23	30	562.13	562.13	53.73
229	1	2.63	0.00			0.00	1	2.63	100.00			0.00	1	2.63	100.00	1	2.63	2.63	100.00
230	6	486.00	0.09			0.00	2	53.19	10.94			0.00	2	53.19	10.94	7	485.31	475.63	99.86
231	5	622.88	0.11			0.00	5	444.63	71.38			0.00	5	444.63	71.38	6	622.88	622.56	100.00

System Integer	# of patches in 2EB	Total area (ha) in 2EB	% of total area in 2EB	# of patches in federal lands	Total area (ha) in federal lands	% of system in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																			
Stream Systems continued																			
232	4	427.06	0.08			0.00	4	8.13	1.90			0.00	4	8.13	1.90	3	402.13	402.13	94.16
233	15	1590.94	0.28			0.00	6	134.06	8.43			0.00	6	134.06	8.43	6	1372.88	1372.88	86.29
234	6	793.06	0.14			0.00	1	18.06	2.28			0.00	1	18.06	2.28	5	792.81	779.38	99.97
235	8	376.44	0.07			0.00	5	164.75	43.77			0.00	5	164.75	43.77	7	363.50	363.50	96.56
236	7	16.75	0.00			0.00	1	6.13	36.57			0.00	1	6.13	36.57	1	6.13	6.13	36.57
237	8	764.75	0.14			0.00			0.00			0.00			0.00	5	632.19	520.38	82.67
238	18	2244.13	0.40			0.00			0.00			0.00	3	18.94	0.84	12	1369.94	1113.25	61.05
239	3	559.38	0.10			0.00			0.00			0.00			0.00	4	559.38	530.31	100.00
240	1	398.31	0.07			0.00			0.00			0.00			0.00	1	398.31	382.63	100.00
241	8	2735.63	0.49			0.00			0.00			0.00	12	17.63	0.64	6	1991.56	1581.38	72.80
242	8	4077.38	0.72			0.00	1	0.25	0.01			0.00	1	0.25	0.01	9	4027.13	3990.75	98.77
243	1	134.56	0.02			0.00			0.00			0.00	2	5.94	4.41	1	134.56	122.50	100.00
244	8	1974.44	0.35			0.00			0.00			0.00	3	0.25	0.01	9	1903.38	1886.19	96.40
245	6	52.69	0.01			0.00			0.00			0.00			0.00	3	19.94	19.06	37.84
247	16	4218.63	0.75			0.00			0.00			0.00			0.00	9	1320.25	1307.94	31.30
248	50	4012.38	0.71			0.00	3	23.19	0.58			0.00	3	23.19	0.58	15	497.56	497.50	12.40
249	13	306.06	0.05			0.00			0.00			0.00			0.00	3	207.00	207.00	67.63
250	86	22733.88	4.04			0.00	1	4.50	0.02			0.00	31	35.88	0.16	52	437.50	433.56	1.92
251	1	21.69	0.00			0.00			0.00			0.00			0.00				0.00
253	17	1534.31	0.27			0.00			0.00			0.00			0.00	6	1164.69	1110.06	75.91
254	74	14417.50	2.56			0.00	18	1199.63	8.32			0.00	18	1199.63	8.32	55	6748.94	6616.25	46.81
Lake Systems																			
306	4	1063.88	0.19			0.00			0.00			0.00			0.00	1	1063.69	1063.69	99.98
309	81	37632.25	6.69	1	6.44	0.02	24	25.81	0.07			0.00	50	47.19	0.13	117	20697.75	20697.75	55.00
315	161	10910.69	1.94			0.00	72	3515.06	32.22	1	237.19	2.17	73	3527.25	32.33	145	3623.25	3623.25	33.21
317	4	937.44	0.17			0.00			0.00			0.00			0.00	8	937.31	937.31	99.99
320	6	214.63	0.04			0.00	6	214.63	100.00			0.00	6	214.63	100.00	16	214.63	214.63	100.00
322	3	842.25	0.15			0.00			0.00			0.00			0.00	1	842.00	842.00	99.97
325	102	48.38	0.01			0.00			0.00			0.00	8	1.25	2.58	10	1.25	1.25	2.58
326	641	1326.06	0.24			0.00	85	151.00	11.39			0.00	119	188.81	14.24	190	560.31	560.31	42.25
327	31	112.88	0.02			0.00	4	4.81	4.26			0.00	4	4.81	4.26	13	5.50	5.50	4.87
328	84	73.31	0.01			0.00	3	0.19	0.26			0.00	4	0.81	1.11	6	2.69	2.69	3.67
329	1115	1451.44	0.26			0.00	252	370.69	25.54			0.00	252	370.75	25.54	493	370.81	370.81	25.55
330	331	1251.31	0.22			0.00	55	189.50	15.14			0.00	55	189.50	15.14	84	677.88	677.88	54.17
331	259	473.19	0.08			0.00	20	16.31	3.45			0.00	25	29.63	6.26	30	157.06	157.06	33.19
332	20	21.94	0.00			0.00	1	0.44	1.99			0.00	1	0.44	1.99	1	0.44	0.44	1.99
333	7268	20268.13	3.60			0.00	1500	5371.00	26.50	1	0.06	0.00	1538	5390.25	26.59	2818	5546.44	5546.44	27.37
334	425	230.94	0.04			0.00	107	76.88	33.29			0.00	107	76.88	33.29	124	77.44	77.44	33.53
335	111	255.94	0.05			0.00	18	33.19	12.97			0.00	20	35.00	13.68	24	35.00	35.00	13.68
336	1903	2663.38	0.47			0.00	568	606.88	22.79			0.00	582	622.31	23.37	682	731.44	731.44	27.46
Wetland Systems																			
405	904	2749.75	0.49			0.00	168	318.56	11.59	13	19.00	0.69	183	367.69	13.37	301	367.69	367.69	13.37

System Integer	# of patches in 2EB	Total area (ha) in 2EB	% of total area in 2EB	# of patches in federal lands	Total area (ha) in federal lands	% of system in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																			
Wetland Systems continued																			
406	540	4231.06	0.75			0.00	161	596.13	14.09	5	164.69	3.89	180	925.25	21.87	266	1270.81	1270.75	30.04
409	1235	3373.56	0.60			0.00	184	362.19	10.74	8	21.56	0.64	207	436.44	12.94	249	438.75	438.75	13.01
410	1407	6221.19	1.11			0.00	355	1099.19	17.67	3	15.94	0.26	376	1147.94	18.45	427	1321.50	1321.50	21.24
Non-Target Ecological Systems																			
Wetland Systems																			
411	2703	4522.06	0.80			0.00	579	678.88	15.01	4	3.69	0.08	613	740.69	16.38	722	740.75	740.69	16.38
412	4102	13173.75	2.34			0.00	1119	2985.69	22.66	5	16.88	0.13	1151	3067.56	23.29	1480	3067.88	3067.88	23.29
Coastal Systems																			
124	2	2.38	0.00			0.00			0.00			0.00			0.00				0.00
Unclassified Ecological Systems																			
2	13	176.00	0.03			0.00	5	14.69	8.35			0.00	5	14.69	8.35	6	14.69	14.69	8.35
3	39	18.25	0.00			0.00	15	5.88	32.19			0.00	15	5.88	32.19	17	5.88	5.88	32.19
5	1451	4354.63	0.77	29	57.06	1.31	301	2156.06	49.51			0.00	330	2213.13	50.82	382	2213.50	2213.13	50.83
6	5151	6953.56	1.24			0.00	1204	594.06	8.54	4	0.75	0.01	1239	622.13	8.95	1618	662.38	662.38	9.53

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Black River – Lake Simcoe

Tertiary Watershed 2EC

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area:	619,528 hectares (1,530,853 acres)
Land Ownership:	Public Land ~ 14%, Private Land ~ 80% First Nations Lands ~ 5%, National Parks ~ 1%
Planning Authority:	29% Simcoe County, 21% York Region, 17% City of Kawartha Lakes, 15% Muskoka District, 13% Durham Region, 5% Haliburton County

General Description:

Tertiary watershed 2EC drains into Georgian Bay on Lake Huron and includes the Severn River and Talbot River. There are approximately 4,749 hectares of coastal areas, 442,874 hectares of stream systems, 102,879 hectares of lakes and 62,015 hectares of wetlands. Lake Simcoe and Lake Couchiching are the largest water bodies within the watershed. This watershed also includes the section of Great Lakes shoreline at the point where it drains into Severn Sound on Georgian Bay. Less developed portions of the watershed are dominated by mixed, deciduous and coniferous forests. Wetlands include marshes south of Lake Simcoe, scattered deciduous and coniferous swamps, and treed bogs in the north.

Land Use:

This watershed is densely populated, and includes large communities such as Orillia, Barrie, Innisfil, Georgina, East Gwillimbury, Newmarket and Aurora. The southern portion of the watershed is dominated by agricultural and urban development.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2EC is 81,413 hectares, constituting approximately 13% of the watershed's total area. Over half of these lands (43,131 ha) are located in provincially protected areas. The majority of the remaining conservation lands are designated as provincially significant life science ANSIs, of which 138 hectares coincide with provincial parks. There are approximately 408



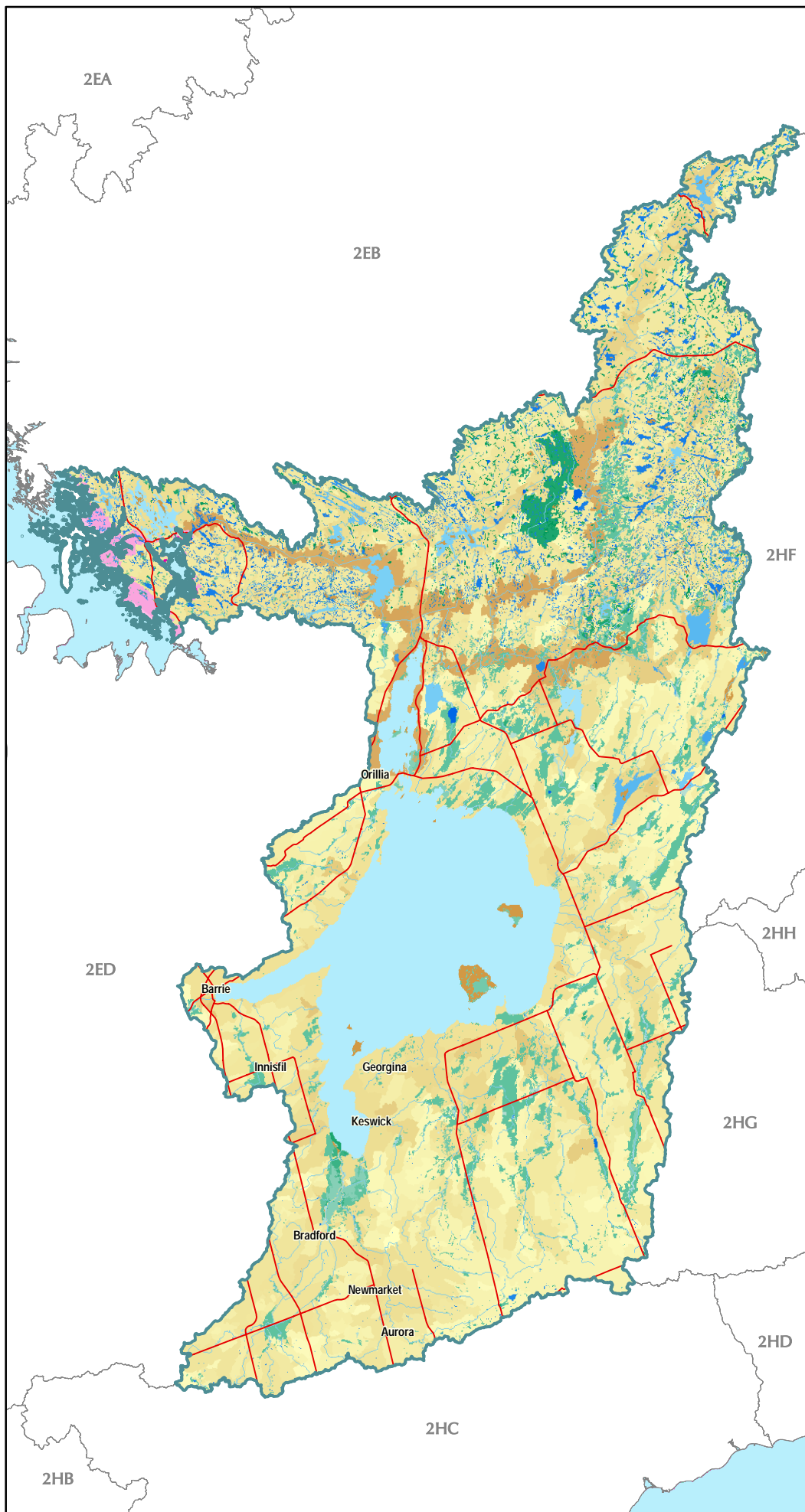
hectares of protected coastal areas, 39,530 hectares of protected stream systems, 6,727 hectares of protected lakes and 32,442 hectares of protected wetlands.

Species and Vegetation Community Targets:

There are 15 target species recorded in watershed 2EC including Branched Bartonian (*Bartonia paniculata*), Schweinitz's Sedge (*Carex schweinitzii*), Ram's-head Lady's-slipper (*Cypripedium arietinum*), Engelmann's Quillwort (*Isoetes engelmannii*), Auricled Twayblade (*Listera auriculata*) and Eastern Prairie Fringed-orchid (*Platanthera leucophaea*). There are occurrences of Branched Bartonian, Ram's-head Lady's-slipper, Engelmann's Quillwort, Eastern Prairie Fringed-orchid and Auricled Twayblade in protected areas. Twelve of the 16 rare vegetation communities documented in this watershed have occurrences in protected areas.

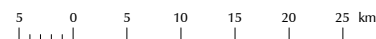
Conservation Blueprint:

The Conservation Blueprint includes 1,949 hectares of coastal areas, 77,546 hectares of stream systems, 89,534 hectares of lakes and 37,999 hectares of wetlands. The Conservation Blueprint includes occurrences of primary targets Branched Bartonian, Schweinitz's Sedge, Ram's-head Lady's-slipper, Engelmann's Quillwort, Auricled Twayblade and Eastern Prairie Fringed-orchid. The Conservation Blueprint also includes all documented occurrences of Atlantic Coastal Plain Shallow Marsh, Few-seeded Sedge Graminoid Bog, Graminoid Coastal Meadow Marsh Type, Mountain Holly Shrub Fen, and Virginia Chain Fern Open Bog.

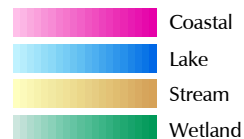


Great Lakes Conservation Blueprint for Biodiversity

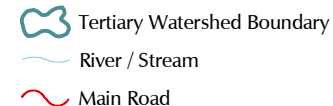
BLACK RIVER - LAKE SIMCOE WATERSHED 2EC



Aquatic Ecological Systems



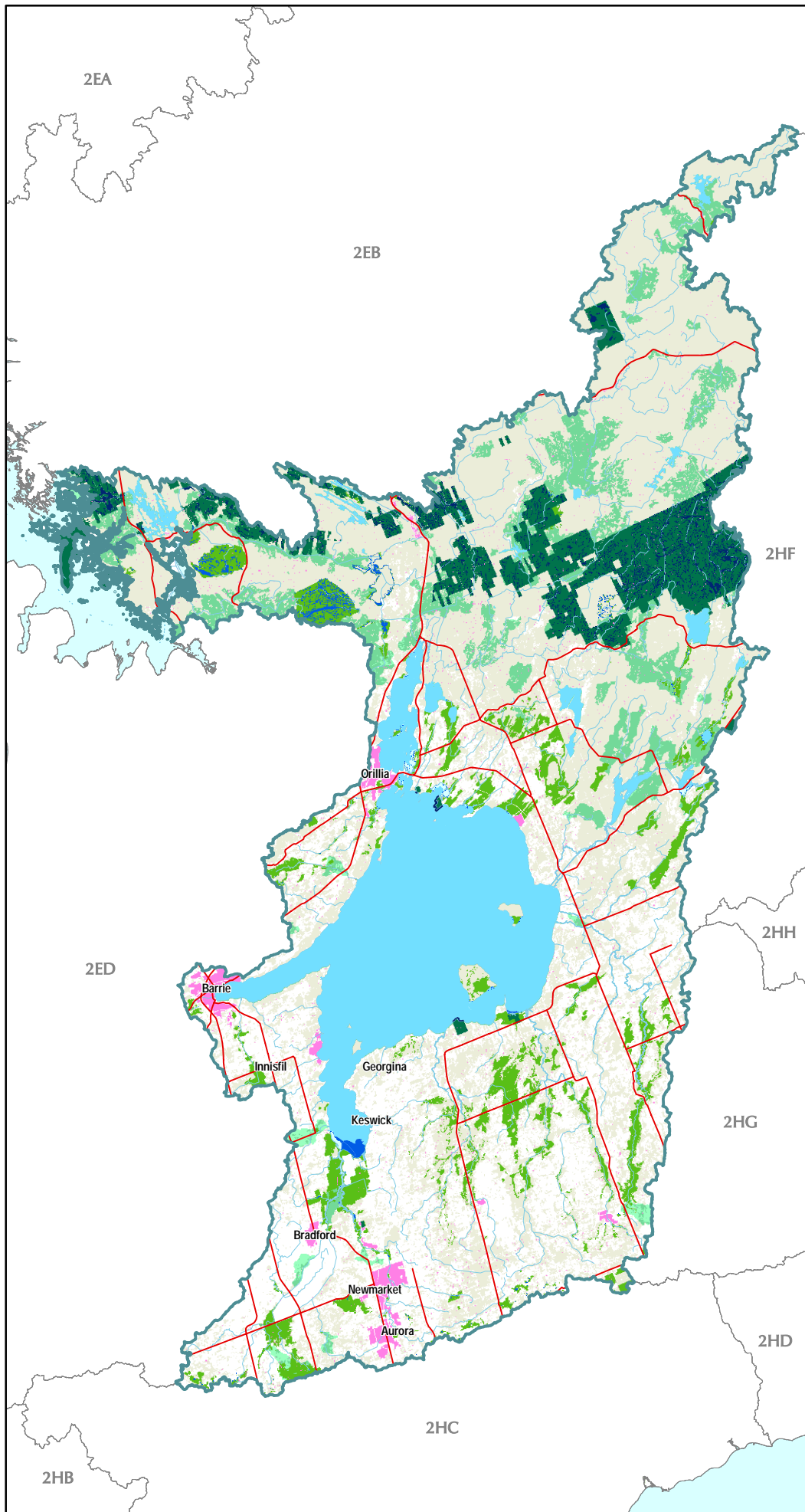
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

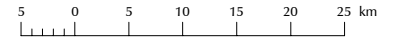
For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

BLACK RIVER - LAKE SIMCOE WATERSHED 2EC



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Documented extant vegetation communities and significant species information for tertiary watershed 2EC

# of pops in 2EC	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in federal lands	# of pops in Parks and PAs	# of pops in PS LS-ANSIs	# of pops in CAS	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species																
1	<i>Ambystoma jeffersonianum</i>	Jefferson Salamander	G4	S2	THR	THR	SAR	0	0	1	0	1	100	1	100	secondary
5	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	0	1	0	3	60	3	60	secondary
1	<i>Coturnicops noveboracensis</i>	Yellow Rail	G4	S4B,SZN	SC	SC	SAR	0	0	0	0	0	0	0	0	secondary
1	<i>Rallus elegans</i>	King Rail	G4G5	S2B,SZN	END	END-R	SAR	0	0	1	0	1	100	1	100	secondary
6	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	0	1	1	6	100	6	100	secondary
8	<i>Clemmys guttata</i>	Spotted Turtle	G5	S3	END	SC	SAR	0	0	0	0	1	13	1	13	secondary
1	<i>Glyptemys insculpta</i>	Wood Turtle	G4	S2	SC	END	SAR	0	0	0	0	0	0	1	100	secondary
39	<i>Graptemys geographica</i>	Northern Map Turtle	G5	S3	SC	SC	SAR	21	1	20	0	24	62	25	64	secondary
14	<i>Sternotherus odoratus</i>	Stinkpot	G5	S3	THR	THR	SAR	3	1	1	0	4	29	5	36	secondary
1	<i>Bartonia paniculata</i> ssp. <i>paniculata</i>	Branched Bartonia	G5T5	S1	THR	THR	SAR	0	1	0	0	1	100	1	100	3
1	<i>Carex schweinitzii</i>	Schweinitz's Sedge	G3	S3			GRank	0	0	0	0	0	0	1	100	2
1	<i>Cypripedium arietinum</i>	Ram's-head Lady's-slipper	G3	S3			GRank	0	0	0	0	1	100	1	100	2
1	<i>Listera auriculata</i>	Auricled Twayblade	G3	S3			GRank	0	0	0	0	1	100	1	100	2
1	<i>Platanthera leucophaea</i>	Eastern Prairie Fringed-orchid	G2	S2	END	END	GRank SAR	0	0	1	0	1	100	1	100	all viable
1	<i>Isoetes engelmannii</i>	Engelmann's Quillwort	G4	S1	END	END	SAR	0	0	1	0	1	100	1	100	3
Communities																
13	Atlantic Coastal Plain Shallow Marsh Type		G2?	S3			GRank	0	4	2	0	6	46	13	100	all viable
1	Buttonbush - Sweet Gale Mineral Thicket Swamp Type		G?	S2S3?			SRank	0	1	0	0	1	100	1	100	3
1	Buttonbush Organic Thicket Swamp Type		G4	S3			SRank	0	0	0	0	0	0	1	100	3
2	Few-seeded Sedge Graminoid Bog Type		G3G4	S5			GRank	0	0	0	0	0	0	2	100	all viable
1	Graminoid Coastal Meadow Marsh Type		G2?	S2			GRank	1	0	1	0	1	100	1	100	all viable
3	Graminoid Open Poor Fen Type		G3G4	S5			GRank	0	3	0	0	3	100	3	100	all viable
2	Mountain Holly Organic Thicket Swamp Type		G?	S3S4			SRank	0	2	0	0	2	100	2	100	3
1	Mountain Holly Shrub Fen Type		G3G4	S3S4			GRank	0	0	0	0	0	0	1	100	all viable
2	Pondweed Submerged - Floating-leaved Shallow Aquatic Type		G5Q	S5			high quality	0	0	0	0	1	50	2	100	secondary
1	Silver / Red Maple Mineral Deciduous Swamp Type		G4?	S5			high quality	0	0	0	0	0	0	0	0	secondary
1	Slender Sedge Graminoid Fen Type		G4G5	S5			high quality	0	0	1	0	1	100	1	100	secondary
1	Sweet Gale Shrub Fen Type		G?	S5			high quality	0	0	1	0	1	100	1	100	secondary

# of extant pops in 2EC	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in federal lands	# of pops in Parks and PAs	# of pops in PS LS-ANSIs	# of pops in CAs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Communities continued																
2	Tamarack Treed Fen Type		G4?	S5			high quality	0	0	2	0	2	100	2	100.00	secondary
4	Virginia Chain Fern Open Bog Type		G3G4	S3			GRank	0	2	1	0	3	75	4	100.00	all viable
1	Water Lily - Bullhead Lily Floating-leaved Shallow Aquatic Type		G5	S5			high quality	0	1	0	0	1	100	1	100.00	secondary
2	Wild-rice Mineral Shallow Marsh Type		G?	S5			high quality	0	0	0	0	1	50	1	50.00	secondary

Ecological systems summary for tertiary watershed 2EC

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	4749.63	0.77	408.19	8.59	1949.75	41.05	1949.06	41.04
Stream Systems	442874.94	71.49	39530.81	8.93	77546.88	17.51	74416.94	16.80
Lake Systems	102879.88	16.61	6727.75	6.54	89534.06	87.03	89534.06	87.03
Wetland Systems	62015.00	10.01	32442.25	52.31	37999.63	61.27	37999.63	61.27
Tertiary watershed	619528.31	100.00	81413.19	13.14	209485.31	33.81	206203.44	33.28

Ecological systems details for tertiary watershed 2EC

System Integer	# of patches in 2EC	Total area (ha) in 2EC	% of total area in 2EC	# of patches in federal lands	Total area (ha) in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	# of patches in CA lands	Total area (ha) in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																		
Coastal Systems																		
103	1	13.31	0.00			3	6.25					3	6.25	46.95	2	13.56	13.56	100
104	53	101.25	0.02			2	0.13					2	0.13	0.12	5	4.31	4.31	4.26
105	5	75.25	0.01											0.00	6	65.13	65.13	86.54
108	38	100.31	0.02			1	0.56					1	0.56	0.56	7	16.25	16.25	16.20
113	17	132.50	0.02			3	4.50					11	14.13	10.66	15	53.06	53.06	40.05
116	58	155.19	0.03			7	6.31					18	9.81	6.32	39	12.19	12.19	7.85
125	107	3288.94	0.53			18	246.69	5	19.56			33	275.63	8.38	43	1683.56	1682.88	51.19
127	1	20.63	0.00											0.00				0.00
199	40	568.00	0.09			3	66.69					10	77.19	13.59	13	77.19	77.19	13.59
Stream Systems																		
201	17	981.88	0.16			3	172.56	5	41.31			56	218.31	22.23	72	346.25	346.19	35.26
202	25	3120.94	0.50					15	401.00	1	2.69	28	405.50	12.99	39	464.63	457.50	14.89

System Integer	# of patches in ZEC	Total area (ha) in ZEC	% of total area in ZEC	# of patches in federal lands	Total area (ha) in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	# of patches in CA lands	Total area (ha) in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																		
Stream Systems continued																		
203	175	24561.00	3.96			20	814.06	49	429.19	4	9.75	680	1328.81	5.41	806	3036.38	2897.69	12.36
204	14	428.56	0.07			3	7.31					5	7.69	1.79	20	423.00	423.00	98.70
205	281	17082.88	2.76			14	357.88	30	120.56	8	28.63	884	577.19	3.38	966	1856.31	1827.81	10.87
206	130	37368.00	6.03			8	143.88	59	718.94	7	294.31	621	1081.75	2.89	756	2763.38	2690.63	7.40
207	16	1399.44	0.23					2	8.75			2	8.75	0.63	4	157.81	157.81	11.28
208	129	14077.63	2.27			20	473.13			1	56.88	163	559.88	3.98	208	995.38	963.88	7.07
209	172	3342.00	0.54			50	347.56	10	107.81			56	446.50	13.36	99	1083.56	1083.56	32.42
210	121	28961.44	4.67			7	29.19	26	61.50	1	16.56	222	127.06	0.44	266	1244.81	1203.00	4.30
211	122	10666.63	1.72			12	187.56					420	227.38	2.13	499	577.56	570.06	5.41
212	39	1774.88	0.29			5	128.06	8	26.13	2	0.13	13	154.25	8.69	30	574.94	574.94	32.39
213	995	58993.56	9.52			420	12038.81	63	1640.31	8	64.50	749	13827.81	23.44	1211	16283.50	15888.50	27.60
214	773	36268.69	5.85			255	4087.69	32	767.56	4	0.94	866	5013.06	13.82	1096	6640.13	6154.13	18.31
215	141	13612.56	2.20			1	1.50			6	5.19	393	96.69	0.71	410	3064.63	3039.25	22.51
216	46	8218.31	1.33									154	16.13	0.20	197	216.00	179.69	2.63
217	315	33567.13	5.42			145	2578.44	62	401.75	7	66.88	421	3073.00	9.15	538	3363.13	3363.13	10.02
218	179	11660.00	1.88			66	754.69	38	1150.50	5	3.44	227	1918.81	16.46	319	1999.75	1999.75	17.15
219	210	36453.88	5.88			54	1780.88	27	20.31	9	32.38	909	1930.50	5.30	1084	3596.13	3554.69	9.86
220	61	6000.19	0.97			29	333.81	1	39.38	7	77.00	38	450.31	7.50	51	616.56	616.56	10.28
221	385	37083.81	5.99			115	3434.75	69	523.56	36	128.19	722	4245.38	11.45	968	5872.38	5844.56	15.84
222	10	1271.56	0.21									2	0.19	0.01	5	474.94	145.00	37.35
223	3	14.69	0.00			1	12.06					1	12.06	82.13	2	12.06	12.06	82.13
224	43	9303.13	1.50							4	39.19	203	62.19	0.67	232	1004.06	914.94	10.79
225	8	610.19	0.10									2	0.69	0.11	4	480.56	166.81	78.76
226	20	2682.38	0.43					1	0.19			14	1.75	0.07	31	1493.94	1493.94	55.69
227	210	9870.63	1.59			69	1086.50	10	103.06	1	21.63	109	1215.81	12.32	179	5163.00	4487.44	52.31
228	16	58.13	0.01			7	20.06	2	4.94			9	25.00	43.01	13	30.38	30.38	52.26
229	1	0.88	0.00											0.00				0.00
230	24	3470.94	0.56									6	0.63	0.02	15	1529.44	1525.56	44.06
231	78	4158.75	0.67			33	526.25	2	0.19			68	529.88	12.74	92	819.38	819.38	19.70
232	1	0.25	0.00											0.00				0.00
233	9	1170.19	0.19			1	5.13			2	21.00	31	29.88	2.55	15	865.25	677.75	73.94
234	1	0.19	0.00											0.00				0.00
235	36	1245.94	0.20			4	9.88	4	0.75			77	16.94	1.36	86	123.13	107.31	9.88
236	2	0.63	0.00			1	0.38					1	0.38	60.00	1	0.38	0.38	60.00
238	7	117.38	0.02									1	1.06	0.91	4	113.06	87.19	96.33
241	11	505.13	0.08									2	51.25	10.15	7	368.69	327.25	72.99
242	9	26.69	0.00			2	5.06					2	5.06	18.97	2	5.06	5.06	18.97
243	3	149.13	0.02											0.00	2	148.94	132.69	99.87
246	11	651.88	0.11											0.00	4	474.25	421.50	72.75
247	1	1.69	0.00					2	0.44			2	0.44	25.93	2	0.44	0.44	25.93
248	44	1347.75	0.22			11	126.06					47	138.94	10.31	44	515.81	515.81	38.27

System Integer	# of patches in ZEC	Total area (ha) in ZEC	% of total area in ZEC	# of patches in federal lands	Total area (ha) in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	# of patches in CA lands	Total area (ha) in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																		
Stream Systems continued																		
249	11	140.31	0.02			2	6.56					6	7.25	5.17	5	111.63	111.63	79.55
250	96	10599.19	1.71			14	256.19					132	281.00	2.65	163	4692.06	4686.81	44.27
251	1	54.56	0.01			1	9.94					1	9.94	18.21	1	54.56	54.56	100.00
252	3	72.06	0.01											0.00	1	71.63	38.69	99.39
253	28	1057.88	0.17			10	231.94	4	19.50			13	249.19	23.56	14	684.94	684.94	64.75
254	96	7636.88	1.23			81	977.00					81	977.00	12.79	79	2933.56	2933.56	38.41
Lake Systems																		
302	94	76339.00	12.32			3	101.25	3	168.13	2	0.25	150	611.50	0.80	91	76326.00	76326.00	99.98
306	7	982.44	0.16											0.00	6	982.06	982.06	99.96
309	18	1347.19	0.22			1	9.75					1	9.75	0.72	21	1344.50	1344.50	99.80
315	67	3034.38	0.49			6	230.88	13	196.50			196	696.44	22.95	376	915.63	915.63	30.18
317	8	901.75	0.15									10	0.75	0.08	6	901.25	901.25	99.94
320	7	847.56	0.14											0.00	14	847.19	847.19	99.96
322	7	1779.94	0.29											0.00	15	1779.06	1779.06	99.95
325	166	79.88	0.01			8	3.25	5	5.94			18	10.19	12.75	27	10.31	10.31	12.91
326	621	898.81	0.15			132	99.56	33	21.81	3	5.00	227	204.06	22.70	332	477.81	477.81	53.16
327	97	74.06	0.01			4	2.25					6	2.44	3.29	12	18.19	18.19	24.56
328	331	178.81	0.03			5	1.00	11	5.69			21	16.75	9.37	29	29.25	29.25	16.36
329	1403	1950.50	0.31			651	761.63	48	50.19			727	818.50	41.96	1271	931.19	931.19	47.74
330	370	604.00	0.10			77	136.50	6	4.75	3	4.25	96	146.19	24.20	144	288.88	288.88	47.83
331	374	310.19	0.05			28	23.69	16	12.94			65	38.63	12.45	78	38.63	38.63	12.45
332	184	34.38	0.01											0.00				0.00
333	7718	11923.00	1.92			2870	3222.13	386	661.44	4	0.75	3293	3905.88	32.76	5694	4113.25	4113.25	34.50
334	398	189.50	0.03			92	26.19	17	9.13	2	0.38	123	43.13	22.76	138	44.69	44.69	23.58
335	277	138.88	0.02			10	6.81	1	1.31	1	0.13	18	9.13	6.57	20	9.31	9.25	6.71
336	1549	1264.56	0.20			373	173.00	69	37.25	2	0.25	454	214.38	16.95	542	476.81	476.81	37.71
Wetland Systems																		
401	301	516.06	0.08			9	12.38	36	67.31	8	10.25	200	311.19	60.30	230	311.50	311.50	60.36
402	400	2459.94	0.40			30	238.75	46	96.31	27	28.88	300	1821.56	74.05	379	1911.88	1911.88	77.72
404	9	1922.31	0.31					11	735.81	4	55.38	45	1574.13	81.89	15	1916.44	1916.44	99.69
405	1996	5847.63	0.94			106	160.69	76	112.19	18	19.19	567	2065.06	35.31	667	2143.81	2143.81	36.66
406	1996	38390.44	6.20			280	2714.81	104	1933.06	25	487.88	970	22743.31	59.24	1370	25397.38	25397.38	66.16
407	35	71.06	0.01			1	0.50	6	27.63			29	60.31	84.87	31	64.44	64.44	90.68
408	38	534.94	0.09			16	97.31	13	261.44	1	4.88	47	405.63	75.83	64	406.25	406.25	75.94
409	262	701.38	0.11			28	41.88	8	53.25			50	174.75	24.92	56	230.19	230.19	32.82
410	326	5655.06	0.91			59	1801.06	6	102.19			106	2003.94	35.44	124	4335.44	4335.44	76.66
Non-Target Ecological Systems																		
Coastal Systems																		
124	10	8.81	0.00											0.00				0.00

System Integer	# of patches in ZEC	Total area (ha) in ZEC	% of total area in ZEC	# of patches in federal lands	Total area (ha) in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	# of patches in CA lands	Total area (ha) in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Non-Target Ecological Systems continued																		
Wetland Systems																		
411	1049	1457.75	0.24			241	252.44					260	278.06	19.07	324	278.06	278.06	19.07
412	1681	4458.44	0.72			383	920.94	1	0.06			395	1004.31	22.53	491	1004.25	1004.25	22.52
Unclassified Ecological Systems																		
1	28	285.44	0.05					2	24.50			2	24.50	8.58	4	24.50	24.50	8.58
2	32	1032.63	0.17			16	195.69			2	2.44	32	199.56	19.33	38	199.56	199.56	19.33
3	8	1.06	0.00			1	0.06					1	0.06	5.88	1	0.06	0.06	5.88
5	697	2885.56	0.47	24	1252.88	1	0.06	36	1153.94			119	1289.13	44.67	141	1440.31	1289.13	49.91
6	3726	4123.31	0.67			991	620.69	224	184.19	11	2.38	1421	1015.06	24.62	1779	1014.69	1014.69	24.61

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Nottawasaga

Tertiary Watershed 2ED

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area: 446,318 hectares (1,102,852 acres)

Land Ownership: Public Land ~ 5%
Private Land ~ 90%
First Nations Lands ~ 5%

Planning Authority: 81% Simcoe County
16% Dufferin County
3% Grey County

General Description:

Tertiary watershed 2ED lies between the Nottawasaga Bay and Severn Sound and drains into the south end of Georgian Bay on Lake Huron. There are approximately 12,423 hectares of coastal areas, 393,391 hectares of stream systems, 2,262 hectares of lakes and 32,069 hectares of wetlands. Large islands include Christian Island, Hope Island, Beckwith Island and Giant's Tomb Island. Dense deciduous forest and patches of marsh and conifer swamp are scattered throughout the watershed. Deciduous swamp and open fen dominate a large area south of Minesing.

Land Use:

Agriculture is the dominant land use. A few patches of pasture and developed land are also present. A few areas of coniferous plantation forest can also be found. Collingwood, Wasaga Beach, Midland and Penetanguishene are the major communities in the watershed.

Protection and Conservation:

The total area of protected and conservation lands in tertiary watershed 2ED is 37,805 hectares, constituting approximately 8% of the watershed's total area. Almost half of these lands (15,932 hectares) are provincially significant life science ANSIs, of which 1,502 hectares coincide with



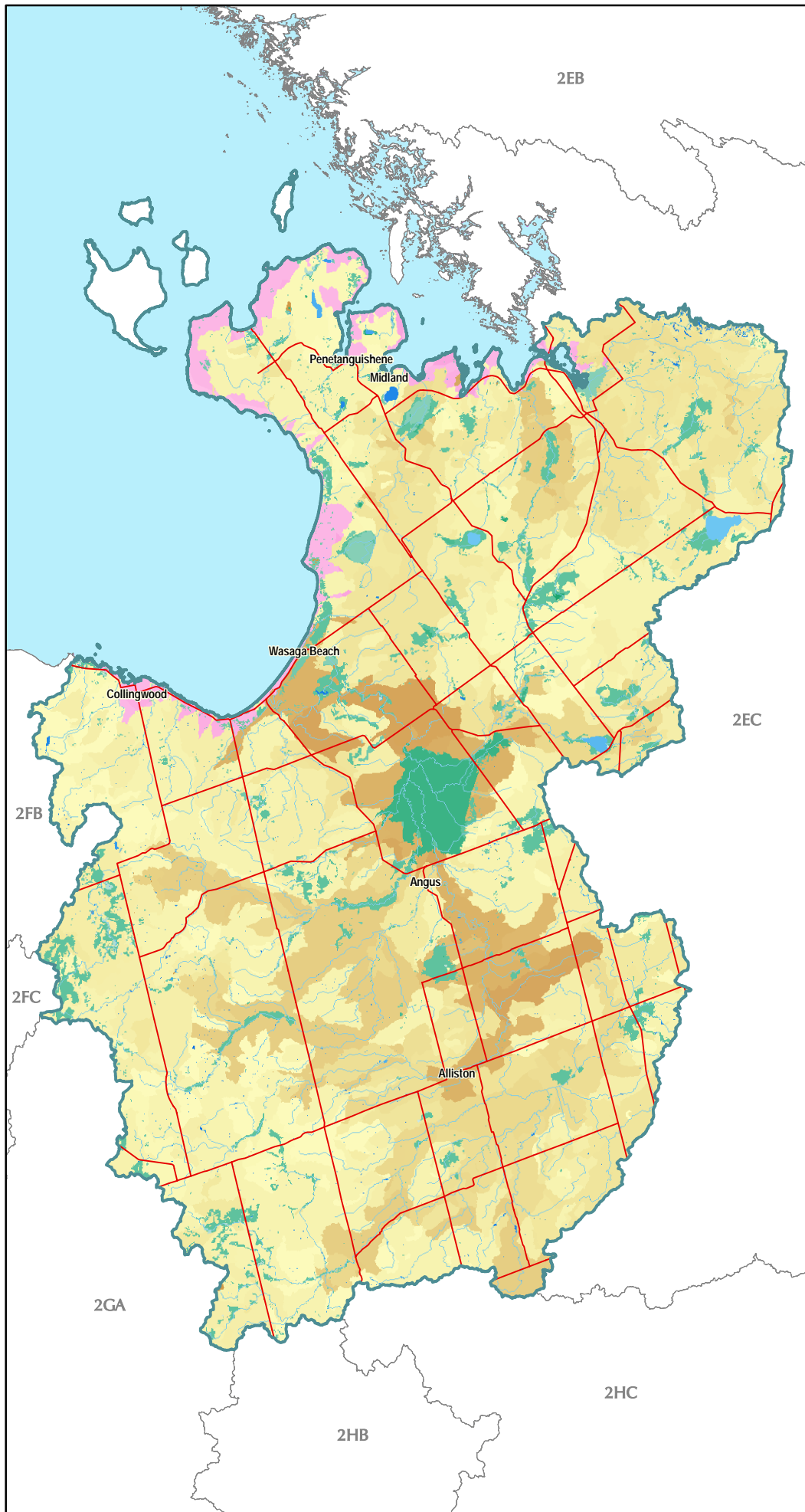
provincial parks. There are approximately 1,019 hectares of protected coastal areas, 12,226 hectares of protected stream systems, 128 hectares of protected lakes and 23,847 hectares of protected wetlands.

Species and Vegetation Community Targets:

There are 13 target species that are known to occur in watershed 2ED, including the primary targets Schweinitz's Sedge (*Carex schweinitzii*), Ram's-head Lady's-slipper (*Cypripedium arietinum*) and Eastern Prairie Fringed-orchid (*Platanthera leucophaea*). There are three documented occurrences of rare vegetation communities in this watershed: Graminoid Coastal Meadow Marsh, Slender Sedge Graminoid Fen, and Tamarack Coniferous Organic Swamp. All of these target communities occur within conservation lands.

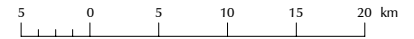
Conservation Blueprint:

The Conservation Blueprint includes 2,636 hectares of coastal areas, 58,475 hectares of stream systems, 1,310 hectares of lakes and 24,165 hectares of wetlands. The Conservation Blueprint also includes populations of the primary targets Schweinitz's Sedge (2), Ram's-head Lady's-slipper (2) and Eastern Prairie Fringed-orchid (1). All viable occurrences of target vegetation communities were included in the portfolio.

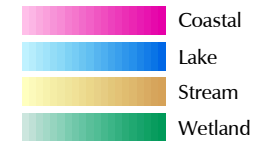


Great Lakes Conservation Blueprint for Biodiversity

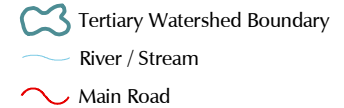
NOTTAWASAGA WATERSHED 2ED



Aquatic Ecological Systems



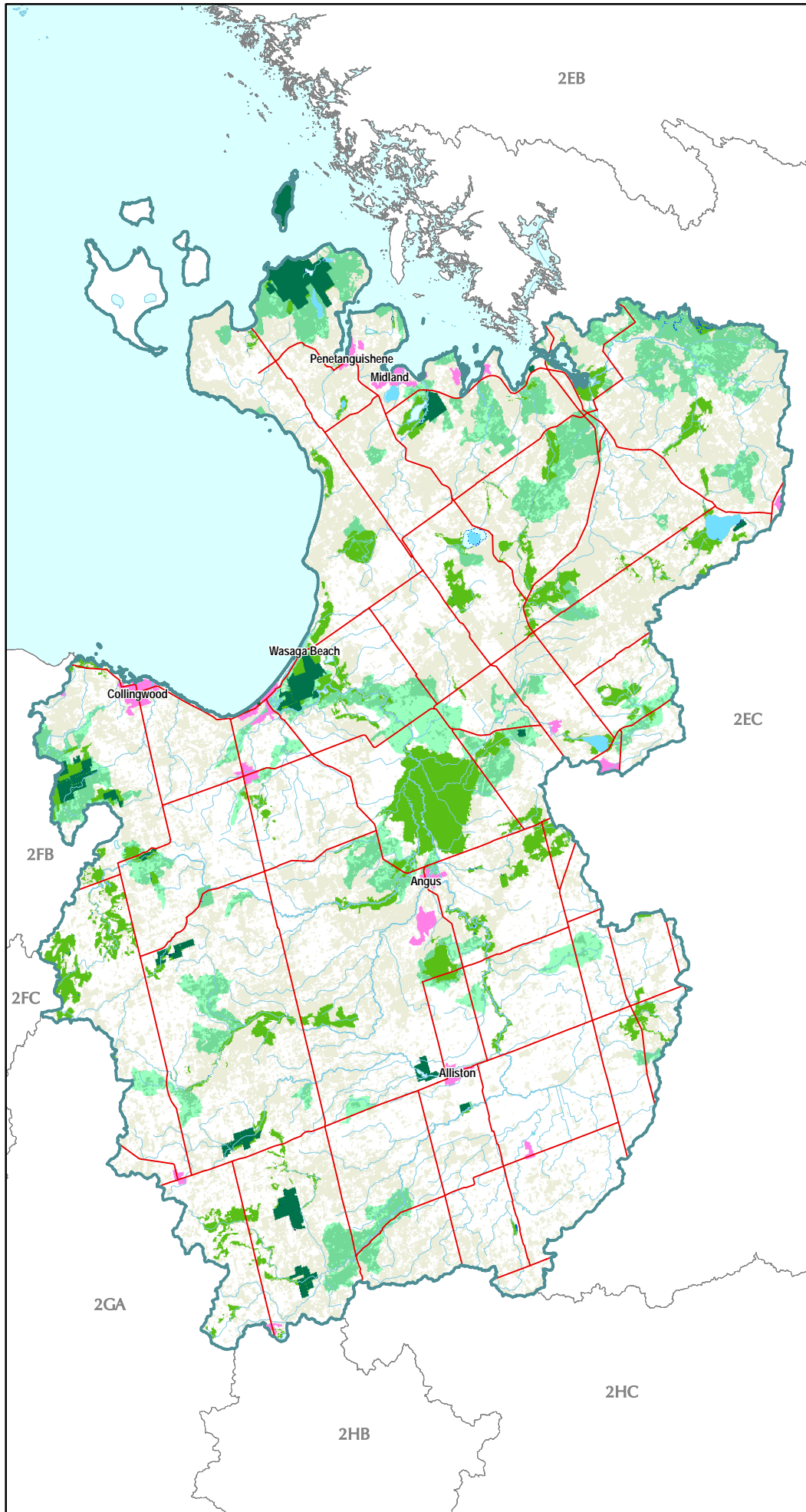
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

NOTTAWASAGA WATERSHED 2ED



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Documented extant vegetation communities and significant species information for tertiary watershed 2ED

# of pops in 2ED	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federal lands	% of pops in Parks and PAs	% of pops in PS LS-ANSIs	% of pops in CAs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species																
2	<i>Ambystoma jeffersonianum</i>	Jefferson Salamander	G4	S2	THR	THR	SAR	0	0	100	0	2	100	2	100	secondary
6	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	0	33	0	4	67	5	83	secondary
1	<i>Coturnicops noveboracensis</i>	Yellow Rail	G4	S4B,SZN	SC	SC	SAR	0	0	100	0	1	100	1	100	secondary
2	<i>Rallus elegans</i>	King Rail	G4G5	S2B,SZN	END	END-R	SAR	0	0	0	0	2	100	2	100	secondary
5	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	0	40	0	4	80	4	80	secondary
2	<i>Seiurus motacilla</i>	Louisiana Waterthrush	G5	S3B,SZN	SC	SC	SAR	0	0	50	0	1	50	1	50	secondary
4	<i>Clemmys guttata</i>	Spotted Turtle	G5	S3	END	SC	SAR	25	0	25	0	3	75	3	75	secondary
1	<i>Glyptemys insculpta</i>	Wood Turtle	G4	S2	SC	END	SAR	0	0	100	100	1	100	1	100	secondary
10	<i>Graptemys geographica</i>	Northern Map Turtle	G5	S3	SC	SC	SAR	10	10	10	0	5	50	6	60	secondary
4	<i>Sternotherus odoratus</i>	Stinkpot	G5	S3	THR	THR	SAR	25	0	0	0	1	25	1	25	secondary
4	<i>Carex schweinitzii</i>	Schweinitz's Sedge	G3	S3			GRank	0	50	50	0	2	50	2	50	2
6	<i>Cypripedium arietinum</i>	Ram's-head Lady's-slipper	G3	S3			GRank	0	50	33	0	3	50	3	50	2
1	<i>Platanthera leucophaea</i>	Eastern Prairie Fringed-orchid	G2	S2	END	END	GRank SAR	0	0	100	0	1	100	1	100	all viable
Communities																
2	Graminoid Coastal Meadow Marsh Type		G2?	S2			GRank	0	50	100	0	2	100	2	100	all viable
1	Slender Sedge Graminoid Fen Type		G4G5	S5			high quality	0	0	100	100	1	100	1	100	secondary
1	Tamarack Coniferous Organic Swamp Type		G4	S5			high quality	0	0	100	100	1	100	1	100	secondary

Ecological systems summary for tertiary watershed 2ED

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	12423.50	2.78	1019.50	8.21	2636.13	21.22	2485.44	20.01
Stream Systems	393391.06	88.14	12226.88	3.11	58475.31	14.86	40606.00	10.32
Lake Systems	2262.13	0.51	23847.38	5.70	1310.19	57.92	1310.19	57.92
Wetland Systems	32069.44	7.19	23847.38	74.36	24165.75	75.35	24165.75	75.35
Tertiary watershed	446318.81	100.00	37805.00	8.47	87169.63	19.53	69149.56	15.49

Ecological systems details for tertiary watershed 2ED

System Integer	# of patches in 2ED	Total area (ha) in 2ED	% of total area in 2ED	# of patches in federal lands	Total area (ha) in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	# of patches in CA lands	Total area (ha) in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																		
Coastal Systems																		
104	3	4.31	0.00			1	0.63					1	0.63	14.49	3	4.31	4.31	100
105	27	280.75	0.06			3	22.63	6	7.19			10	24.38	8.68	16	45.13	45.13	16.07
106	4	49.00	0.01									4	0.56	1.15	21	50.50	50.50	100
107	3	98.31	0.02			24	50.56			2	0.50	26	51.06	51.94	4	98.69	98.69	100
108	42	176.88	0.04			1	6.44	1	3.63			8	7.25	4.10	12	47.00	47.00	26.57
113	46	76.56	0.02					12	9.63			61	21.13	27.59	76	24.31	24.31	31.76
115	2	3.88	0.00									1	0.06	1.61	3	3.88	3.88	100
116	17	35.13	0.01					1	2.25			5	3.44	9.79	9	7.38	7.38	21.00
125	26	540.00	0.12					1	2.06			5	2.31	0.43	7	324.94	259.31	60.17
126	25	1440.31	0.32			1	44.31	1	6.38			14	64.88	4.50	16	118.19	117.31	8.21
127	98	8489.94	1.90			47	735.88	11	238.50	3	0.25	86	774.44	9.12	113	1842.44	1758.25	21.70
199	48	1032.88	0.23			3	7.13	4	4.88			9	68.13	6.60	15	68.13	68.13	6.60
Stream Systems																		
201	13	1556.69	0.35	1	5.56	1	9.56			3	80.94	28	98.63	6.34	31	832.69	560.44	53.49
202	81	26654.38	5.97			21	909.88	24	967.38	16	47.94	139	1514.88	5.68	144	4845.44	3558.38	18.18
203	98	20526.81	4.60	2	54.56	7	1200.69	51	398.69	1	7.63	385	1461.69	7.12	450	4135.44	3876.38	20.15
204	5	1056.19	0.24			1	57.00	2	243.38			3	256.50	24.29	8	892.75	536.81	84.53
205	24	1257.69	0.28	1	2.25							50	7.56	0.60	47	257.25	246.81	20.45
206	212	86726.19	19.43			19	1220.56	55	1701.38	23	90.81	1265	2806.06	3.24	1470	3500.31	3313.69	4.04
207	41	8929.94	2.00			7	367.56	8	552.13	1	0.44	29	695.38	7.79	35	1330.19	1184.44	14.90
208	45	6754.63	1.51									178	19.63	0.29	210	20.38	20.13	0.30
209	13	1023.06	0.23					3	27.69			10	28.25	2.76	14	239.38	202.94	23.40
210	127	49937.00	11.19			3	34.38	19	187.88	1	0.06	230	363.06	0.73	266	601.94	562.06	1.21
211	69	9876.44	2.21			1	53.06	35	132.31	7	21.31	642	269.94	2.73	751	272.69	272.69	2.76
212	29	3038.88	0.68					2	0.81			5	1.06	0.03	7	370.44	344.44	12.19
213	46	3236.06	0.73	2	1.75			4	106.50			77	333.56	10.31	110	1508.44	1446.38	46.61
214	24	3600.56	0.81					2	6.06			101	15.88	0.44	105	781.06	618.75	21.69
215	55	11516.56	2.58			1	0.06	49	74.38	10	57.06	228	148.44	1.29	278	1175.50	936.75	10.21
216	51	7325.50	1.64							3	0.25	65	72.75	0.99	67	1668.00	752.88	22.77
217	75	30034.69	6.73			2	36.75	28	350.38			65	369.56	1.23	93	1399.38	1256.25	4.66
218	55	10206.94	2.29			1	32.56	7	1.00			78	39.81	0.39	89	1199.38	993.56	11.75
219	27	10461.31	2.34	1	64.31			4	25.75	1	2.63	14	109.56	1.05	21	3424.63	2450.38	32.74
220	19	6854.69	1.54			2	196.75					3	350.88	5.12	7	535.56	518.88	7.81
221	18	1923.88	0.43	6	4.50			6	13.00			51	31.06	1.61	62	31.25	31.25	1.62
222	30	10699.44	2.40	1	14.00			2	13.94			29	30.00	0.28	5	1654.38	654.38	15.46
223	2	209.50	0.05							1	1.50	1	1.50	0.72	4	209.50	83.75	100.00
224	40	12870.00	2.88			1	68.13	1	77.75	1	2.25	230	131.81	1.02	169	2990.38	2033.13	23.24
225	14	6222.25	1.39									18	1.81	0.03	7	2441.75	1453.56	39.24

System Integer	# of patches in 2ED	Total area (ha) in 2ED	% of total area in 2ED	# of patches in federal lands	Total area (ha) in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	# of patches in CA lands	Total area (ha) in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																		
Coastal Systems continued																		
226	8	62.75	0.01									14	1.06	1.69	7	61.75	27.56	98.41
227	6	358.75	0.08									7	0.63	0.17	4	358.63	183.44	99.97
228	1	33.38	0.01									3	0.19	0.56	3	0.19	0.19	0.56
229	1	469.69	0.11							1	65.56	1	65.56	13.96	2	469.69	269.31	100.00
230	31	27780.69	6.22			1	0.94	14	457.75	4	46.13	165	661.88	2.38	185	4544.56	3514.13	16.36
231	10	1273.88	0.29	4	20.31			2	6.50			64	32.56	2.56	42	732.81	605.00	57.53
232	7	743.38	0.17											0.00	5	612.00	379.06	82.33
233	3	168.31	0.04	1	0.88							11	2.06	1.23	7	168.31	66.94	100.00
235	4	848.69	0.19									31	4.13	0.49	5	848.31	711.94	99.96
236	2	288.38	0.06									1	0.06	0.02	2	288.38	216.81	100.00
237	1	120.31	0.03					2	3.25			2	3.25	2.70	2	120.31	74.25	100.00
238	8	1175.50	0.26					2	25.81			62	31.75	2.70	18	1082.13	598.88	92.06
241	3	21.38	0.00					5	3.44			6	3.56	16.67	6	3.56	3.56	16.67
243	11	3474.44	0.78			2	46.75	5	19.94			22	67.88	1.95	8	1122.13	426.00	32.30
244	5	809.69	0.18					2	1.63	2	3.63	10	5.88	0.73	13	766.56	333.19	94.67
246	53	13272.44	2.97			22	1080.31	47	1738.06	13	51.06	188	2023.38	15.24	166	4515.75	3369.50	34.02
248	3	319.69	0.07					8	1.19			12	1.75	0.55	3	319.69	33.19	100.00
250	4	0.31	0.00											0.00				0.00
251	12	1752.19	0.39					2	0.13			16	1.63	0.09	17	1626.94	386.38	92.85
252	9	2155.31	0.48					20	134.88	2	2.31	36	139.25	6.46	31	489.38	243.00	22.71
253	6	1675.69	0.38									13	1.38	0.08	8	52.88	51.38	3.16
254	12	4064.81	0.91					1	0.06	2	4.63	118	19.81	0.49	38	3973.31	1203.25	97.75
Lake Systems																		
319	26	672.25	0.15			1	6.63					45	11.56	1.72	29	672.25	672.25	100.00
322	1	223.88	0.05											0.00	1	223.88	223.88	100.00
325	150	170.69	0.04			1	0.06	3	0.25			4	0.31	0.18	8	112.50	112.50	65.91
326	277	160.88	0.04	6	2.06	4	1.19	22	3.81	5	5.00	52	13.25	8.24	69	13.88	13.88	8.62
327	100	38.31	0.01					4	2.63			8	3.00	7.83	9	3.00	3.00	7.83
328	587	163.44	0.04			4	4.25			2	0.19	9	4.69	2.87	14	23.50	23.56	14.38
329	15	4.50	0.00					4	1.69			7	2.31	51.39	13	2.31	2.31	51.39
330	166	57.38	0.01			2	3.63			4	0.38	9	4.25	7.41	14	7.56	7.56	13.18
331	545	339.19	0.08	1	0.13	15	3.06	10	3.31	1	0.50	28	5.88	1.73	33	161.00	161.00	47.47
332	347	60.81	0.01			1	0.88	2	0.94			5	1.88	3.08	8	7.81	7.81	12.85
333	127	246.94	0.06			1	0.06	12	39.06	1	8.44	28	71.19	28.83	59	71.25	71.25	28.85
334	52	11.00	0.00					4	0.50			5	0.63	5.68	6	0.63	0.63	5.68
335	320	87.88	0.02			1	0.81	4	1.94			7	2.44	2.77	8	3.06	3.06	3.49
336	82	25.00	0.01					7	1.63			12	7.56	30.25	14	7.56	7.56	30.25

System Integer	# of patches in 2ED	Total area (ha) in 2ED	% of total area in 2ED	# of patches in federal lands	Total area (ha) in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	# of patches in CA lands	Total area (ha) in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																		
Wetland Systems																		
401	168	260.88	0.06			3	3.13	7	6.06	1	2.31	114	156.19	59.87	136	156.31	156.31	59.92
402	217	774.44	0.17	3	3.81	7	50.81	6	9.19	5	16.88	168	586.38	75.72	220	588.44	588.44	75.98
404	10	1588.94	0.36	2	120.56			8	500.19			14	1495.56	94.12	22	1590.06	1590.06	100.00
405	1044	2963.94	0.66	2	3.69	44	120.44	53	183.94	6	3.69	243	760.81	25.67	271	770.31	770.25	25.99
406	745	19562.31	4.38	4	130.88	29	168.88	70	1476.25	32	155.63	392	14119.25	72.18	546	14211.69	14211.63	72.65
407	33	96.63	0.02	2	4.94	1	0.81	5	4.31			23	68.44	70.83	28	68.69	68.69	71.09
408	14	6710.50	1.50	2	1.56			3	5587.50	15	3410.75	11	6606.50	98.45	14	6706.38	6706.38	99.94
409	10	49.94	0.01	1	1.69	1	0.50	2	6.75			6	12.00	24.03	6	12.00	12.00	24.03
410	2	59.38	0.01									1	39.75	66.95	2	59.38	59.38	100.00
Non-Target Ecological Systems																		
Coastal Systems																		
121	11	50.13	0.01											0.00				0.00
124	50	145.44	0.03									10	1.25	0.86	11	1.25	1.25	0.86
Wetland Systems																		
411	1	2.50	0.00					1	2.50			1	2.50	100.00	1	2.50	2.50	100.00
Unclassified Ecological Systems																		
2	1	22.19	0.00											0.00				0
5	274	6006.31	1.35			6	484.06	42	513.69			87	525.75	8.75	97	525.75	525.75	8.75
6	321	166.38	0.04	1	0.13	2	0.13	23	38.50	2	0.31	44	56.56	34.00	48	56.50	56.50	33.96

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

North Grey Sauble Bruce Peninsula

Tertiary Watershed 2FA

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area: 210,955 hectares (521,269 acres)

Land Ownership: Public Land ~ 10%
Private Land ~ 70%
First Nations Lands ~ 10%
National Parks ~ 10%

Planning Authority: 80% Bruce County, 20% Grey County

General Description:

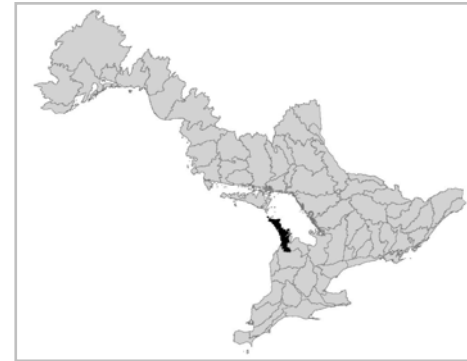
Tertiary watershed 2FA is located on the Bruce Peninsula. There are approximately 20,217 hectares of coastal areas, 155,058 hectares of stream systems, 4,907 hectares of lakes and 27,019 hectares of wetlands. Most of the watershed's boundary consists of Georgian Bay or Lake Huron coastline. Many islands and inlets are found here. The dominant forest type is dense coniferous forest and occurs mainly on the northern half of the watershed, with mixed forest and dense deciduous forest scattered throughout. Wetland types include marsh, deciduous and coniferous swamps, and open fens. Patches of alvar are also present.

Land Use:

Land use patterns vary widely from north to south. Agriculture is the dominant land use in the southern half of the watershed, while tourism is the primary use on the upper portion of the Bruce Peninsula. A few pastures and developed lands are scattered throughout the region.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2FA is 52,958 hectares, constituting approximately 25% of the watershed's total area. Over half of these lands (36,034 ha) are located in provincially



significant life science ANSIs, of which 1,503 hectares coincide with provincial parks. There are about 9,275 hectares of protected coastal areas 25,838 hectares of protected stream systems, 1,210 hectares of protected lakes and 15,118 hectares of protected wetlands.

Species and Vegetation Community Targets:

Ten species targets are known to occur in watershed 2FA, including Ram's-head Lady's-slipper (*Cypripedium arietinum*), Eastern Prairie Fringed-orchid (*Platanthera leucophaea*), Schweinitz's Sedge (*Carex schweinitzii*), Hill's Pondweed (*Potamogeton hillii*) and Houghton's Goldenrod (*Solidago houghtonii*). Three rare vegetation communities are documented for this watershed. There is at least one record of each target species and rare vegetation community in 2FA conservation lands.

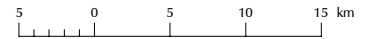
Conservation Blueprint:

The Conservation Blueprint includes 9,278 hectares of coastal areas, 47,302 hectares of stream systems, 2,633 hectares of lakes and 15,475 hectares of wetlands. The Conservation Blueprint also includes occurrences of Schweinitz's Sedge, Ram's-head Lady's-slipper, Eastern Prairie Fringed-orchid, Hill's Pondweed and Houghton's Goldenrod. The portfolio also contains all of the known occurrences of rare vegetation communities in the watershed.

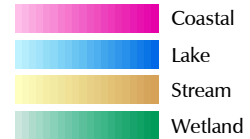


Great Lakes Conservation Blueprint for Biodiversity

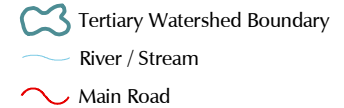
NORTH GREY SAUBLE BRUCE PENINSULA WATERSHED 2FA



Aquatic Ecological Systems



Other Information



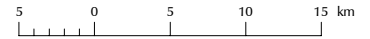
Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

NORTH GREY SAUBLE BRUCE PENINSULA WATERSHED 2FA

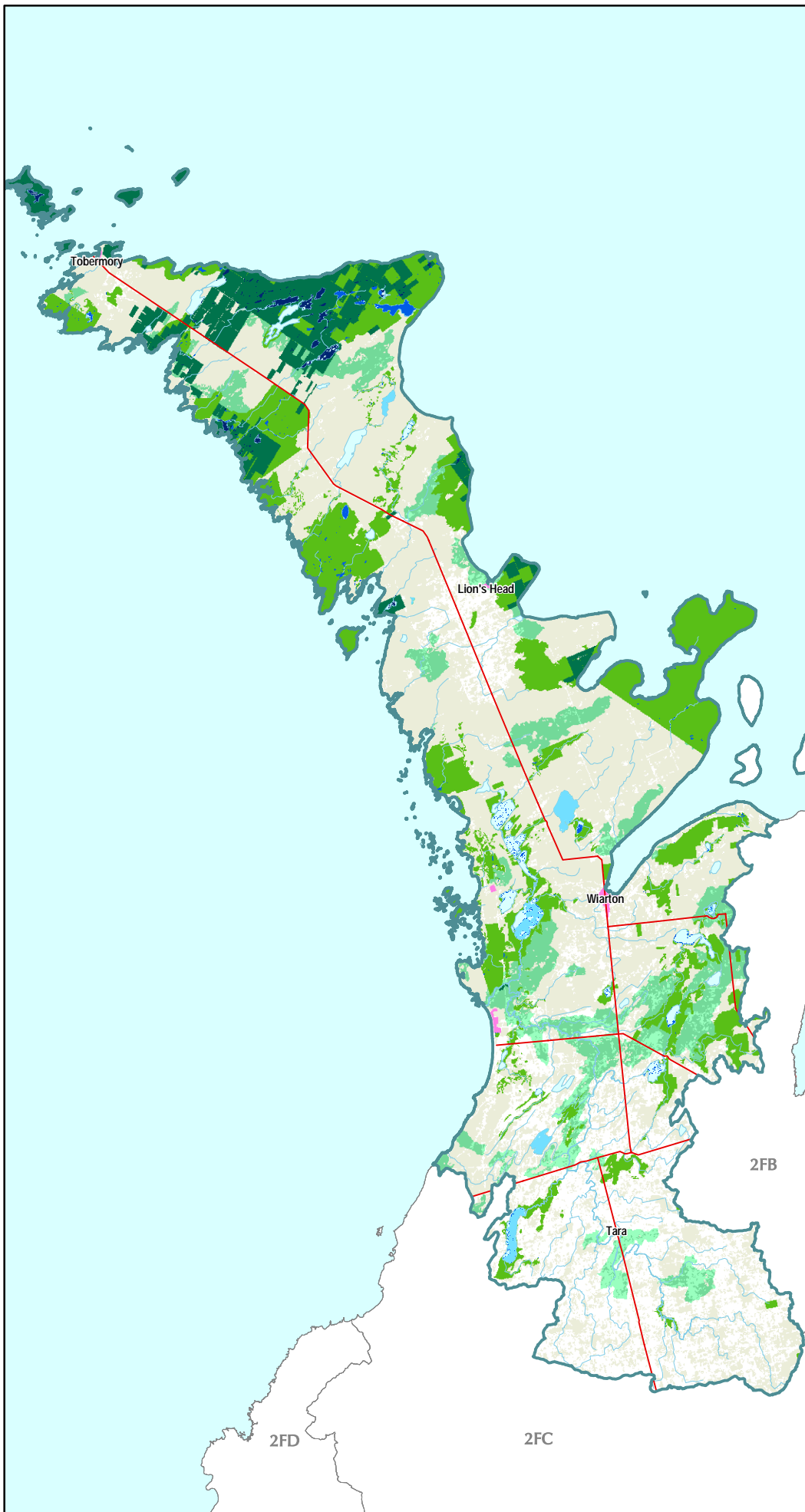


Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Documented extant vegetation communities and significant species information for tertiary watershed 2FA

# of pops in 2FA	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federal lands	% of pops in Parks and PAs	% of pops in PS LS-ANSIs	% of pops in CAs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species																
4	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	0	0	25	3	75	3	75	secondary
2	<i>Rallus elegans</i>	King Rail	G4G5	S2B,SZN	END	END-R	SAR	0	0	0	0	1	50	1	50	secondary
9	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	0	11	0	4	44	5	56	secondary
1	<i>Ichthyomyzon fossor</i>	Northern Brook Lamprey	G4	S3	SC	SC	SAR	0	0	0	100	1	100	1	100	secondary
3	<i>Clemmys guttata</i>	Spotted Turtle	G5	S3	END	SC	SAR	0	0	67	33	2	67	3	100	secondary
1	<i>Solidago houghtonii</i>	Houghton's Goldenrod	G3	S2	SC		GRank SAR	0	100	100	0	1	100	1	100	4
1	<i>Carex schweinitzii</i>	Schweinitz's Sedge	G3	S3			GRank	0	0	100	100	1	100	1	100	2
5	<i>Cypripedium arietinum</i>	Ram's-head Lady's-slipper	G3	S3			GRank	20	20	60	0	3	60	3	60	2
1	<i>Platanthera leucophaea</i>	Eastern Prairie Fringed-orchid	G2	S2	END	END	GRank SAR	0	0	100	0	1	100	1	100	all viable
8	<i>Potamogeton hillii</i>	Hill's Pondweed	G3	S2	SC	THR	GRank SAR	38	25	38	0	7	88	7	88	4
Communities																
46	Graminoid Coastal Meadow Marsh Type		G2?	S2			GRank	7	11	72	0	36	78	46	100	all viable
14	Shrubby Cinquefoil Coastal Meadow Marsh Type		G2?	S1			GRank	7	0	50	0	11	79	14	100	all viable
1	Shrubby Cinquefoil Limestone Beach Type		G3G4	S2			GRank	0	0	100	0	1	100	1	100	all viable

Ecological systems summary for tertiary watershed 2FA

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	20217.00	9.58	9275.88	45.88	9728.88	48.12	9714.69	48.05
Stream Systems	155058.75	73.50	25838.25	16.66	47302.19	30.51	41937.81	27.05
Lake Systems	4907.00	2.33	1210.25	24.66	2633.06	53.66	2633.06	53.66
Wetland Systems	27019.00	12.81	15118.88	55.96	15475.38	57.28	15475.38	57.28
Tertiary watershed	210955.75	100.00	52958.69	25.10	76666.13	36.34	71276.63	33.79

Ecological systems details for tertiary watershed 2FA

System Integer	# of patches in 2FA	Total area (ha) in 2FA	% of total area in 2FA	# of patches in federal lands	Total area (ha) in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	# of patches in CA lands	Total area (ha) in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% system in the Blueprint
Target Ecological Systems																		
Coastal Systems																		
101	44	232.88	0.11	10	35.13			19	96.06			22	96.44	41.41	28	96.75	96.75	41.55
102	8	13.94	0.01					5	4.00	4	3.81	10	4.81	34.53	10	14.13	14.13	100
104	150	426.13	0.20	45	83.25	19	29.81	59	161.88			88	187.25	43.94	107	193.44	193.44	45.39
105	92	683.63	0.32	35	97.13	17	71.94	48	380.75	4	3.94	66	404.56	59.18	103	404.63	404.63	59.19
106	2	40.31	0.02											0.00	2	40.50	40.50	100
107	4	22.50	0.01											0.00	2	22.69	22.69	100
108	126	431.44	0.20	24	51.88	14	42.56	59	218.50	1	5.44	85	235.25	54.53	128	235.25	235.25	54.53
113	114	139.88	0.07	6	5.06	3	3.38	39	40.75	1	0.44	78	45.44	32.48	96	46.69	46.69	33.38
114	2	6.94	0.00					1	2.88			1	2.88	41.44	2	6.94	6.94	100
115	1	9.19	0.00					31	36.81					0.00	2	9.31	9.31	100
116	81	103.50	0.05	10	11.50	4	1.25			2	0.50	46	44.63	43.12	61	46.94	46.94	45.35
125	2	19.00	0.01					1	2.63			1	2.63	13.82	1	2.63	2.63	13.82
126	17	423.50	0.20					1	89.31	2	79.75	1	108.25	25.56	3	356.31	343.19	84.14
127	306	15045.81	7.13	74	1398.19	56	932.81	165	6360.56	20	208.94	399	6763.06	44.95	499	6872.00	6870.94	45.67
199	196	2537.75	1.20	46	435.50	24	151.81	102	1260.56	5	5.25	155	1376.63	54.25	222	1376.63	1376.63	54.25
Stream Systems																		
201	6	1067.56	0.51					6	1060.50			6	1060.50	99.34	6	1067.56	1067.56	100.00
202	20	2668.00	1.26	1	19.31	6	248.31	18	743.13	5	29.63	20	805.81	30.20	30	1359.81	1345.00	50.97
203	295	35249.19	16.71	73	2941.94	47	1228.25	133	5741.38	38	311.44	816	8419.13	23.88	1006	8543.19	8543.19	24.24
204	2	29.13	0.01											0.00				0.00
205	385	22849.56	10.83	89	3910.00	75	3079.25	202	6087.81	65	393.38	677	7674.94	33.59	854	9709.69	9669.13	42.49
206	114	16736.25	7.93	25	293.50	9	91.19	55	3176.63	7	289.56	135	3365.19	20.11	170	3734.44	3733.94	22.31
207	2	308.50	0.15									2	0.13	0.04	1	308.44	216.81	99.98
208	58	5369.56	2.55					9	24.06	2	16.69	90	48.69	0.91	76	2367.44	2226.31	44.09
209	1	8.19	0.00	1	8.19			1	8.19			1	8.19	100.00	1	8.19	8.19	100.00
210	26	14901.00	7.06			1	16.63	5	269.94	6	68.75	19	339.56	2.28	20	815.81	754.13	5.47
211	71	9839.25	4.66					3	177.00	44	443.19	370	653.75	6.64	325	4112.00	3379.38	41.79
212	3	238.75	0.11					3	238.75			3	238.75	100.00	10	238.75	238.75	100.00
213	16	1195.75	0.57	1	4.25			12	242.50			13	246.75	20.64	23	246.75	246.75	20.64
214	40	657.69	0.31	6	71.44			14	125.75			18	190.50	28.97	28	193.13	193.13	29.36
215	68	6220.13	2.95	15	122.31	5	9.63	29	612.13	11	375.50	144	803.56	12.92	160	936.69	932.25	15.06
216	23	8721.88	4.13			1	2.31	2	189.31	2	17.31	8	209.19	2.40	11	1106.38	1006.25	12.69
217	10	2214.94	1.05					1	9.31			2	9.44	0.43	5	876.25	773.00	39.56
218	12	6114.00	2.90			1	7.50	17	261.06			44	264.38	4.32	53	266.75	267.44	4.36
219	10	1555.56	0.74							4	6.94	4	6.94	0.45	5	1456.13	292.56	93.61
220	2	894.13	0.42											0.00	2	894.13	410.13	100.00

System Integer	# of patches in 2FA	Total area (ha) in 2FA	% of total area in 2FA	# of patches in federal lands	Total area (ha) in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	# of patches in CA lands	Total area (ha) in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% system in the Blueprint
Target Ecological Systems continued																		
Stream Systems continued																		
222	26	9581.31	4.54			3	85.56	1	273.31	4	9.06	34	286.63	2.99	29	2176.88	1507.31	22.72
224	9	802.69	0.38			3	375.75	1	621.88			6	622.38	77.54	3	779.31	719.06	97.09
225	1	363.31	0.17											0.00	1	363.31	62.69	100.00
226	1	45.88	0.02											0.00				0.00
230	6	2625.00	1.24							1	5.63	1	5.63	0.21	5	2590.50	1709.75	98.69
231	33	2417.38	1.15			4	17.56	3	94.63	25	260.31	120	383.31	15.86	117	1972.63	1919.44	81.60
233	6	838.63	0.40					14	65.06			50	69.63	8.30	8	814.38	355.94	97.11
235	13	957.81	0.45					1	2.94	5	75.31	32	81.56	8.52	23	319.94	316.00	33.40
238	2	0.13	0.00											0.00				0.00
243	1	0.06	0.00											0.00				0.00
246	2	0.13	0.00											0.00				0.00
Lake Systems																		
317	6	550.25	0.26									44	5.06	0.92	11	550.06	550.06	99.97
322	36	1780.00	0.84					5	207.63	8	0.75	224	232.38	13.05	218	970.94	970.94	54.55
325	149	111.69	0.05	22	9.19	31	20.56	36	44.31	6	5.88	67	56.75	50.81	91	56.75	56.75	50.81
326	418	1740.75	0.83	90	117.56	78	448.81	170	519.31	10	3.31	325	694.81	39.91	445	810.50	810.50	46.56
327	19	4.00	0.00											0.00				0.00
328	194	120.13	0.06	22	7.75	15	21.19	44	59.81	4	2.94	61	65.50	54.53	74	65.50	65.50	54.53
329	5	0.38	0.00											0.00				0.00
330	69	86.75	0.04							7	9.00	19	10.25	11.82	11	22.31	22.31	25.72
331	200	433.88	0.21	16	18.88	21	13.13	65	107.94	4	22.94	102	136.50	31.46	116	148.00	148.00	34.11
332	81	11.31	0.01									1	0.06	0.55	1	0.06	0.06	0.55
333	4	0.63	0.00											0.00			0.06	0.00
334	26	2.56	0.00									2	0.13	4.88	2	0.13	0.13	4.88
335	34	44.81	0.02							1	0.94	2	1.13	2.51	2	1.13	1.13	2.51
336	8	0.88	0.00											0.00				0.00
Wetland Systems																		
401	855	1952.13	0.93	101	177.56	83	140.00	238	613.69	84	144.94	610	1142.75	58.54	723	1147.06	1147.06	58.76
402	547	2820.00	1.34	73	178.63	49	182.06	156	639.25	54	235.75	480	1904.63	67.54	632	1906.69	1906.69	67.61
404	4	538.00	0.26	14	21.06	3	76.88	1	114.19	9	167.69	10	520.25	96.70	8	538.00	538.00	100.00
405	2041	5361.94	2.54	214	334.81	117	160.25	556	1388.06	74	173.50	921	2461.13	45.90	1103	2660.25	2660.25	49.61
406	800	14645.94	6.94	63	249.00	44	97.38	171	1740.19	74	1345.31	467	8045.44	54.93	647	8177.19	8177.44	55.83
407	248	940.63	0.45	26	40.13	12	16.00	97	374.25	11	29.94	179	442.00	46.99	216	442.50	442.50	47.04
408	133	726.06	0.34	29	75.50	10	12.88	65	446.56	4	6.56	138	568.50	78.30	174	569.50	569.50	78.44
409	4	34.31	0.02					2	26.69	2	5.56	4	34.19	99.64	5	34.19	34.19	99.64

System Integer	# of patches in 2FA	Total area (ha) in 2FA	% of total area in 2FA	# of patches in federal lands	Total area (ha) in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	# of patches in CA lands	Total area (ha) in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% system in the Blueprint
Non-Target Ecological Systems																		
Coastal Systems																		
121	6	27.31	0.01											0.00			4.06	0.00
124	41	53.31	0.03			3	1.44	7	1.88	1	0.25	16	4.06	7.62	20	4.06	4.06	7.62
Unclassified Ecological Systems																		
2	1	587.44	0.28							2	43.75	2	43.75	7.45	2	43.75	43.75	7.45
3	65	19.00	0.01	16	2.25	4	0.69	48	7.19			51	7.69	40.46	61	7.69	7.69	40.46
5	659	2869.13	1.36	128	227.75	4	0.25	204	788.75	16	13.50	341	855.63	29.82	390	866.88	855.63	30.21
6	439	884.88	0.42	33	17.13	76	32.19	96	274.75	22	129.38	202	659.81	74.57	269	659.75	659.75	74.56

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Owen Sound

Tertiary Watershed 2FB

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area:	188,804 hectares (466,534 acres)
Land Ownership:	Public Land ~ 5% Private Land ~ 95%
Planning Authority:	99.5% Grey County 0.5% Simcoe County

General Description:

Tertiary watershed 2FB drains into the south end of Georgian Bay. There are approximately 5,274 hectares of coastal areas, 170,498 hectares of stream systems, 1,436 hectares of lakes and 11,251 hectares of wetlands. This relatively small watershed contains a significant stretch of coastline along Georgian Bay. This watershed also contains the Sydenham River, where it drains into Owen Sound and Georgian Bay. Much of the watershed is influenced by the Niagara Escarpment and the associated Blue Mountains and Beaver Valley. Many large patches of natural cover remain; these consist primarily of dense deciduous forest, as well as deciduous and coniferous swamps.

Land Use:

Agriculture is the dominant land use in this watershed. Small amounts of pasture are also present. Patches of developed lands surround the larger communities in the watershed including Owen Sound, Meaford and Thornbury.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2FB is 19,130 hectares, constituting approximately 10% of the watershed's total area. Almost half of these lands (7,521 ha) are located in provincially



significant life science ANSIs, of which 273 hectares coincide with provincial parks. The remainder of these lands are primarily Conservation Authority lands (6,790 ha). There are approximately 504 hectares of protected coastal areas, 10,647 hectares of protected stream systems, 193 hectares of protected lakes and 7,591 hectares of protected wetlands.

Species and Vegetation Community Targets:

Five species targets occur in watershed 2FB; the primary targets are Ram's-head Lady's-slipper (*Cypripedium arietinum*) and Eastern Prairie Fringed-orchid (*Platanthera leucophaea*), and the secondary targets are Black Tern (*Chlidonias niger*), Bald Eagle (*Haliaeetus leucocephalus*) and Least Bittern (*Ixobrychus exilis*). These species are known from protected areas, with the exception of the Least Bittern. There are no documented occurrences of rare vegetation communities in this watershed

Conservation Blueprint:

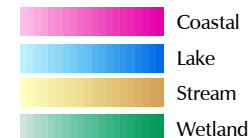
The Conservation Blueprint includes 1,255 hectares of coastal areas, 33,076 hectares of stream systems, 810 hectares of lakes and 7,814 hectares of wetlands. The Conservation Blueprint also includes all of the known occurrences of target species within watershed 2FB.

Great Lakes Conservation Blueprint for Biodiversity

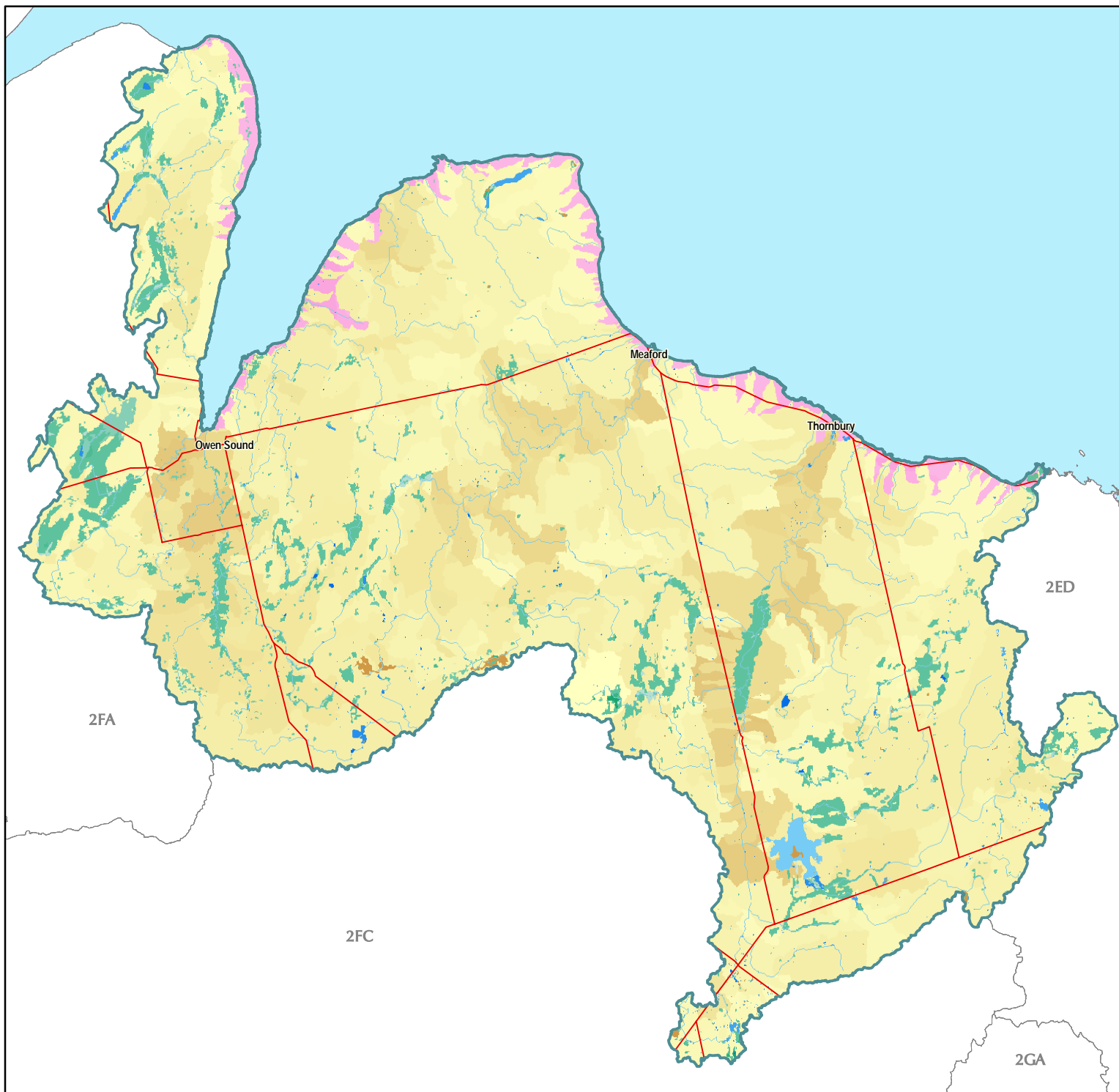
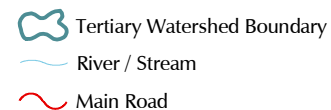
OWEN SOUND WATERSHED 2FB



Aquatic Ecological Systems



Other Information



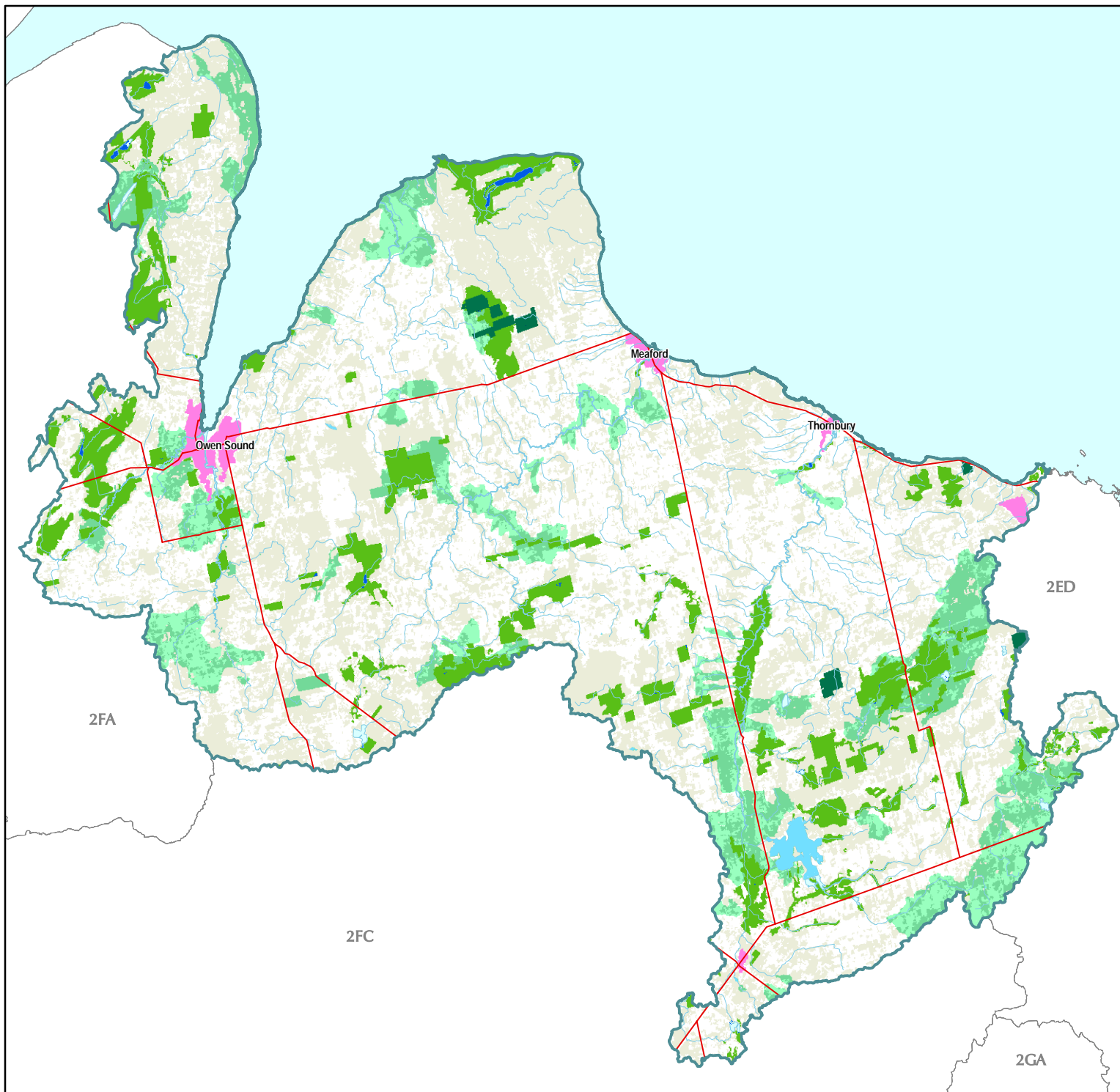
Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

OWEN SOUND WATERSHED 2FB



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Documented extant significant species information for tertiary watershed 2FB

# of pops in 2FB	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in PS LS-ANSIs	% of pops in PS LS-ANSIs	# of pops in CAs	% of pops in CAs	# of pops in all con lands	% of pops in all con lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species																
1	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	0	0	0	0	0	1	100	secondary
1	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S4B,SZN	NAR	END-R	SAR	1	100	0	0	1	100	1	100	secondary
1	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	0	1	100	1	100	1	100	secondary
1	<i>Cypripedium arietinum</i>	Ram's-head Lady's-slipper	G3	S3			GRank	1	100	1	100	1	100	1	100	2
1	<i>Platanthera leucophaea</i>	Eastern Prairie Fringed-orchid	G2	S2	END	END	GRank SAR	1	100	1	100	1	100	1	100	all viable

Ecological systems summary for tertiary watershed 2FB

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	5274.69	2.79	504.50	9.56	1255.38	23.80	1236.06	23.43
Stream Systems	170498.88	90.30	10647.00	6.24	33076.38	19.40	22938.94	13.45
Lake Systems	1436.56	0.76	193.13	13.44	810.19	56.40	810.19	56.40
Wetland Systems	11251.19	5.96	7591.13	67.47	7814.13	69.45	7814.13	69.45
Tertiary watershed	188804.25	100.00	19130.13	10.13	43150.50	22.85	32993.75	17.48

Ecological systems details for tertiary watershed 2FB

System Integer	# of patches in 2FB	Total area (ha) in 2FB	% of total area in 2FB	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) in CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																			
Coastal Systems																			
101	2	14.13	0.01	2	4.00	28.32			0.00			0.00	2	4.00	28.32	2	14.19	14.19	100
104	5	19.94	0.01			0.00	2	7.69	38.56			0.00	2	7.69	38.56	3	11.44	11.44	57.37
105	27	213.81	0.11			0.00	2	32.25	15.08	3	7.88	3.68	6	40.25	18.82	12	65.69	65.69	30.72
106	2	7.81	0.00			0.00			0.00			0.00			0.00	5	8.19	8.19	100
107	7	52.94	0.03			0.00	1	9.56	18.06	2	6.19	11.69	3	15.75	29.75	7	34.25	34.25	64.70
108	12	34.38	0.02			0.00	1	2.38	6.91			0.00	1	2.38	6.91	5	9.06	9.06	26.36
113	9	16.00	0.01			0.00			0.00	3	1.31	8.20	3	1.31	8.20	5	12.88	12.88	80.47

System Integer	# of patches in 2FB	Total area (ha) in 2FB	% of total area in 2FB	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) in CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																			
Coastal Systems continued																			
114	1	2.19	0.00			0.00	1	2.19	100.00			0.00	1	2.19	100.00	1	2.19	2.19	100.00
116	5	6.94	0.00			0.00			0.00	1	2.31	33.33	1	2.31	33.33	3	6.81	6.81	98.20
125	11	477.13	0.25			0.00			0.00			0.00			0.00	3	23.50	23.19	4.93
126	42	943.25	0.50			0.00	2	27.75	2.94	5	34.19	3.62	15	62.63	6.64	19	121.19	121.13	12.85
127	96	3234.06	1.71	6	17.25	0.53	10	337.13	10.42	10	10.38	0.32	35	365.44	11.30	41	945.44	926.50	29.23
199	10	42.75	0.02			0.00			0.00			0.00			0.00				0.00
Stream Systems																			
201	11	610.56	0.32	2	0.50	0.08	9	190.44	31.19	1	22.44	3.67	10	202.50	33.17	14	216.50	216.25	35.46
202	61	14867.13	7.87	6	165.81	1.12	21	521.50	3.51	16	101.19	0.68	47	777.75	5.23	52	1318.56	1205.44	8.87
203	64	11450.63	6.06			0.00	73	902.31	7.88	32	1331.81	11.63	315	2032.75	17.75	370	2580.56	2443.06	22.54
204	14	1464.44	0.78	3	141.13	9.64	4	192.19	13.12	1	6.00	0.41	13	214.19	14.63	14	556.94	385.00	38.03
205	95	5404.69	2.86			0.00	38	261.81	4.84	33	264.81	4.90	224	545.13	10.09	251	708.00	682.06	13.10
206	83	25074.63	13.28	6	292.81	1.17	26	1195.13	4.77	25	489.06	1.95	125	1735.31	6.92	139	2327.69	2209.94	9.28
207	54	9532.94	5.05	2	57.63	0.60	13	427.69	4.49	11	110.13	1.16	21	546.94	5.74	14	1664.31	1035.00	17.46
208	78	15370.38	8.14			0.00	28	487.31	3.17	35	384.50	2.50	235	861.56	5.61	201	6361.44	4121.38	41.39
209	1	68.50	0.04			0.00			0.00			0.00			0.00	1	68.50	68.13	100.00
210	78	36540.81	19.35	3	91.75	0.25	24	344.19	0.94	48	740.75	2.03	315	1200.56	3.29	335	1434.00	1382.00	3.92
211	148	7510.19	3.98			0.00	7	338.06	4.50	43	413.44	5.51	256	691.56	9.21	276	1448.06	1351.63	19.28
212	8	963.56	0.51			0.00			0.00			0.00			0.00	3	201.06	125.56	20.87
213	13	1014.25	0.54			0.00			0.00	2	3.44	0.34	12	4.94	0.49	9	497.63	354.88	49.06
214	4	249.56	0.13			0.00			0.00	6	14.06	5.63	6	14.06	5.63	3	188.00	144.25	75.33
215	30	2970.88	1.57			0.00	3	25.38	0.85	8	114.31	3.85	56	143.81	4.84	16	1136.19	866.19	38.24
216	55	9464.13	5.01			0.00	7	223.50	2.36	19	81.44	0.86	112	451.75	4.77	139	603.63	579.25	6.38
217	18	3431.31	1.82			0.00	1	6.94	0.20	1	13.56	0.40	6	38.63	1.13	9	890.25	446.69	25.94
218	7	1767.44	0.94			0.00			0.00			0.00			0.00	9	1752.00	651.81	99.13
219	10	595.38	0.32			0.00			0.00	1	10.06	1.69	1	10.06	1.69	3	401.56	206.19	67.45
220	7	946.75	0.50			0.00			0.00			0.00			0.00	3	936.63	239.06	98.93
222	35	8117.81	4.30			0.00	6	89.25	1.10	19	135.06	1.66	74	228.94	2.82	87	452.19	307.00	5.57
223	1	25.94	0.01			0.00			0.00			0.00			0.00				0.00
224	13	1319.56	0.70			0.00			0.00	3	25.38	1.92	4	25.50	1.93	7	406.63	124.94	30.82
225	19	4437.38	2.35			0.00	1	9.88	0.22	8	137.56	3.10	6	200.50	4.52	5	2140.75	1203.38	48.24
226	1	312.50	0.17			0.00			0.00	2	2.69	0.86	8	3.31	1.06	1	312.50	213.13	100.00
228	1	15.38	0.01			0.00			0.00			0.00			0.00				0.00
229	3	133.13	0.07			0.00			0.00	1	2.75	2.07	1	2.75	2.07	5	133.13	30.31	100.00
230	11	2421.06	1.28			0.00			0.00	8	63.88	2.64	8	63.88	2.64	8	1040.19	528.06	42.96
231	2	365.00	0.19			0.00			0.00	4	16.06	4.40	4	16.06	4.40	1	364.94	115.25	99.98
232	6	1159.44	0.61			0.00	1	0.31	0.03	7	173.75	14.99	8	174.06	15.01	3	1158.94	567.44	99.96

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Target Ecological Systems continued																			
Stream Systems continued																			
233	3	773.94	0.41			0.00	2	230.63	29.80	3	26.75	3.46	12	237.06	30.63	3	773.94	508.06	100.00
234	4	392.75	0.21			0.00			0.00	1	9.75	2.48	3	9.94	2.53	3	392.69	185.81	99.98
235	2	489.19	0.26			0.00	4	21.44	4.38	9	73.69	15.06	9	93.75	19.16	2	489.19	322.00	100.00
236	1	39.06	0.02			0.00			0.00	1	0.06	0.16	1	0.06	0.16	1	0.06	0.06	0.16
Lake Systems																			
317	4	596.06	0.32			0.00			0.00			0.00			0.00	2	595.75	595.75	99.95
325	58	22.94	0.01			0.00	6	0.75	3.27			0.00	6	0.75	3.27	7	0.75	0.75	3.27
326	189	277.69	0.15	3	0.31	0.11	39	128.31	46.21	9	0.94	0.34	57	130.31	46.93	90	130.31	130.31	46.93
327	126	64.31	0.03			0.00	2	0.44	0.68	10	1.31	2.04	12	1.44	2.24	17	14.44	14.44	22.45
328	133	39.00	0.02			0.00			0.00			0.00	2	0.44	1.12	2	0.44	0.44	1.12
329	11	3.19	0.00			0.00			0.00			0.00			0.00				0.00
330	198	176.00	0.09			0.00	4	15.31	8.70	11	2.38	1.35	30	28.81	16.37	34	28.94	28.94	16.44
331	158	68.44	0.04			0.00	2	15.44	22.56	4	20.63	30.14	5	20.75	30.32	8	26.25	26.25	38.36
332	301	59.94	0.03			0.00	3	0.50	0.83	4	0.50	0.83	7	0.81	1.36	11	3.00	3.00	5.01
333	9	2.81	0.00			0.00			0.00			0.00			0.00				0.00
334	24	3.19	0.00			0.00			0.00			0.00			0.00				0.00
335	223	116.31	0.06			0.00	4	3.63	3.12	2	3.69	3.17	25	9.00	7.74	28	9.50	9.50	8.17
336	45	6.69	0.00			0.00			0.00	1	0.81	12.15	1	0.81	12.15	1	0.81	0.81	12.15
Wetland Systems																			
401	83	105.81	0.06			0.00	21	13.75	12.99	17	10.19	9.63	66	71.31	67.40	81	72.13	72.13	68.16
402	127	466.88	0.25			0.00	22	71.13	15.23	25	151.63	32.48	104	388.81	83.28	121	393.19	393.19	84.22
404	3	346.13	0.18			0.00			0.00			0.00	3	340.13	98.27	3	346.13	346.13	100.00
405	450	950.19	0.50			0.00	23	66.25	6.97	30	79.69	8.39	101	201.50	21.21	121	202.06	202.06	21.27
406	454	9247.31	4.90			0.00	44	1119.25	12.10	93	1482.88	16.04	209	6479.50	70.07	255	6690.75	6690.75	72.35
407	17	53.69	0.03			0.00	8	12.06	22.47	5	9.50	17.69	12	35.81	66.71	16	35.81	35.81	66.71
408	8	39.75	0.02			0.00	5	29.81	75.00	2	10.13	25.47	8	33.56	84.43	9	33.56	33.56	84.43
409	7	11.44	0.01			0.00			0.00	2	2.38	20.77	7	10.81	94.54	7	10.81	10.81	94.54
410	2	30.00	0.02			0.00	1	24.13	80.42	2	21.88	72.92	2	29.69	98.96	2	29.69	29.69	98.96
Non-Target Ecological Systems																			
Coastal Systems																			
121	16	67.06	0.04	1	0.06	0.09			0.00			0.00	1	0.06	0.09	1	0.06	0.06	0.09
122	4	10.94	0.01			0.00			0.00			0.00			0.00				0.00
123	3	76.38	0.04			0.00			0.00			0.00			0.00				0.00
124	17	55.00	0.03			0.00			0.00	1	0.50	0.91	1	0.50	0.91	1	0.50	0.50	0.91

System Integer	# of patches in 2FB	Total area (ha) in 2FB	% of total area in 2FB	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) in CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Non-Target Ecological Systems continued																			
Unclassified Ecological Systems																			
2	17	1198.63	0.63			0.00	19	50.69	4.23	7	91.50	7.63	15	119.69	9.99	24	119.75	119.75	9.99
5	100	7.19	0.00			0.00	8	0.56	7.83			0.00	8	0.56	7.83	8	0.56	0.56	7.83
6	394	335.75	0.18	2	0.31	0.09	31	82.44	24.55	20	69.63	20.74	56	193.81	57.73	72	193.88	193.88	57.74

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

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Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

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Saugeen

Tertiary Watershed 2FC

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area: 402,315 hectares (994,209 acres)

Land Ownership: Public Land ~ 1%
Private Land ~ 95%
First Nations Lands ~ 4%

Planning Authority: 51% Grey County
43% Bruce County
6% Wellington County

General Description:

Tertiary watershed 2FC drains into eastern Lake Huron and contains a small stretch of Great Lakes shoreline. There are approximately 1,754 hectares of coastal areas, 368,263 hectares of stream systems, 1,639 hectares of lakes and 29,928 hectares of wetlands. The Saugeen River is the major waterway in watershed 2FC. The natural cover in the watershed is primarily deciduous and mixed forests. Small areas of dense coniferous forest are also found. Wetlands in the watershed are mostly deciduous or coniferous swamps.

Land Use:

Agriculture is the primary land use in the watershed, but significant patches of natural cover remain. There are many pastures and abandoned fields in the region. Port Elgin and Hanover are the main communities.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2FC is 30,885 hectares, constituting approximately 7.5% of the watershed's total area. Almost half of these lands (14,098 ha) are located in provincially significant life science ANSIs. There are 8,052 hectares of protected stream



systems, 272 hectares of protected lakes and 21,977 hectares of protected wetlands, but none of the coastal areas are protected.

Species and Vegetation Community Targets:

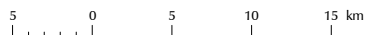
Six species targets occur in 2FC. The primary targets are Schweinitz's Sedge (*Carex schweinitzii*) and Ebony Boghaunter (*Williamsonia fletcheri*). Hungerford's Crawling Water Beetle (*Brychius hungerfordi*), Spotted Turtle (*Clemmys guttata*), Redside Dace (*Clinostomus elongatus*) and Northern Map Turtle (*Graptemys geographica*) are the secondary targets. There are occurrences of Schweinitz's Sedge and Ebony Boghaunter within conservation lands. There is one documented occurrence of a Tamarack Treed Fen vegetation community in this watershed.

Conservation Blueprint:

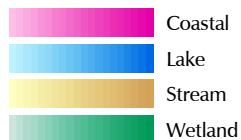
The Conservation Blueprint includes 438 hectares of coastal areas, 47,334 hectares of stream systems, 310 hectares of lakes and 22,171 hectares of wetlands. The Conservation Blueprint also includes all of the occurrences of primary and secondary targets, except for Northern Map Turtle.

Great Lakes Conservation Blueprint for Biodiversity

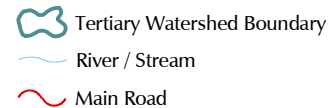
SAUGEEN WATERSHED 2FC



Aquatic Ecological Systems



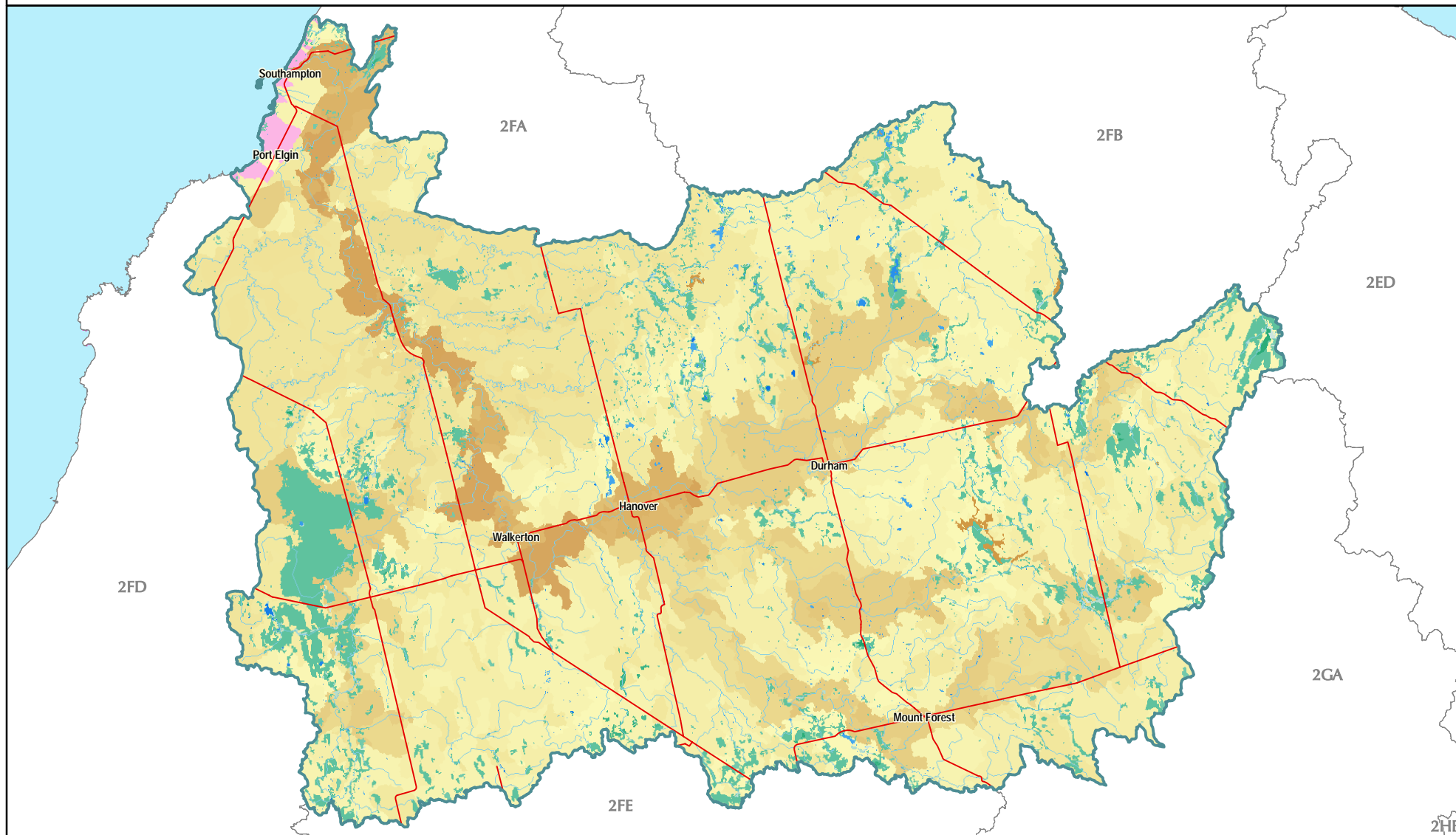
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

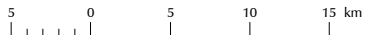
For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

SAUGEEN WATERSHED 2FC



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

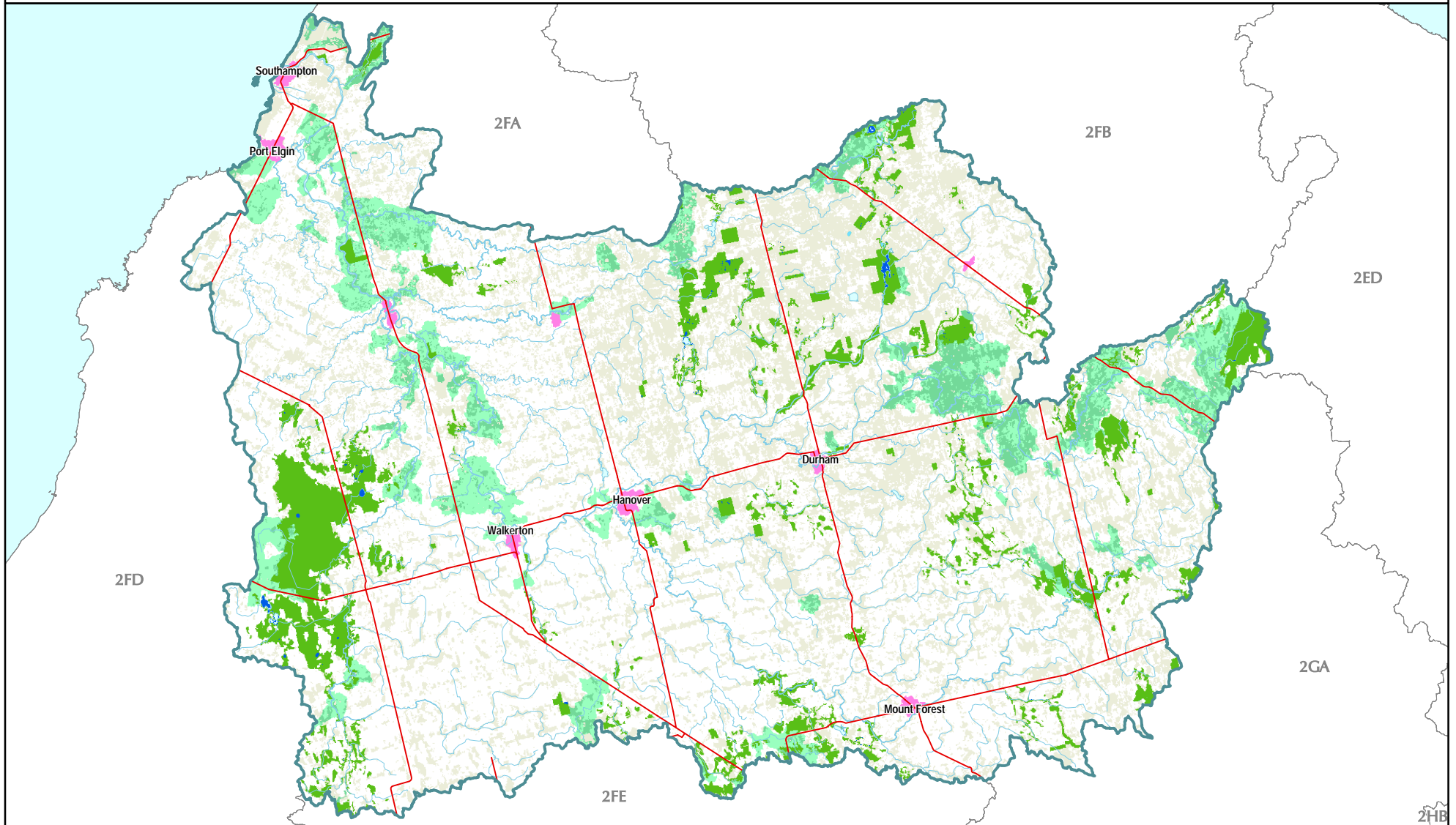
- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Documented extant vegetation communities and significant species information for tertiary watershed 2FC

# of pops in 2FC	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in PS LS-ANSIs	% of pops in PS LS-ANSIs	# of pops in CAs	% of pops in CAs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species																
1	<i>Clinostomus elongatus</i>	Redside Dace	G4	S3	SC	THR	SAR	0	0	0	0	0	0	1	100	secondary
1	<i>Clemmys guttata</i>	Spotted Turtle	G5	S3	END	VUL	SAR	0	0	0	0	0	0	1	100	secondary
1	<i>Graptemys geographica</i>	Northern Map Turtle	G5	S3	SC		SAR	0	0	0	0	0	0	0	0	secondary
1	<i>Brychius hungerfordi</i>	Hungerford's Crawling Water Beetle	G1	S1			Grank	0	0	0	0	0	0	1	100	all viable
1	<i>Williamsonia fletcheri</i>	Ebony Boghaunter	G3G4	S2			Grank	1	100	0	0	1	100	1	100	2
1	<i>Carex schweinitzii</i>	Schweinitz's Sedge	G3	S3			Grank	0	0	0	0	1	100	1	100	2
Communities																
1	Tamarack Treed Fen Type		G4?	S5			High Quality	1	100	1	100	1	100	1	100	secondary

Ecological systems summary for tertiary watershed 2FC

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	1754.31	0.44	0.00	0.00	438.13	24.97	209.44	11.94
Stream Systems	368263.69	91.53	8052.00	2.19	47334.50	12.85	23974.75	6.51
Lake Systems	1639.50	0.41	272.00	16.59	310.44	18.93	310.44	18.93
Wetland Systems	29928.94	7.44	21977.75	73.43	22171.56	74.08	22171.56	74.08
Tertiary watershed	402351.19	100.00	30885.13	7.68	70838.19	17.61	47249.81	11.74

Ecological systems details for tertiary watershed 2FC

System Integer	# of patches in 2FC	Total area (ha) in 2FC	% of total area in 2FC	# of patches in federal lands	Total area (ha) in federal lands	% of system in federal lands	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) in CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) system in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																			
Coastal Systems																			
105	4	42.81	0.01			0.00			0.00			0.00			0.00	4	32.38	32.38	75.62
107	2	21.88	0.01			0.00			0.00			0.00			0.00	1	21.94	21.94	100
108	4	8.75	0.00			0.00			0.00			0.00			0.00	4	6.81	6.81	77.86
116	2	5.81	0.00			0.00			0.00			0.00			0.00	3	5.81	5.81	100

System Integer	# of patches in 2FC	Total area (ha) in 2FC	% of total area in 2FC	# of patches in federal lands	Total area (ha) in federal lands	% of system in federal lands	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) in CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) system in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																			
Coastal Systems continued																			
126	32	312.63	0.08			0.00			0.00			0.00			0.00	11	57.75	56.50	18.47
127	24	1314.63	0.33			0.00			0.00			0.00			0.00	21	313.44	86.00	23.84
199	4	30.13	0.01			0.00			0.00			0.00			0.00				0.00
Stream Systems																			
201	1	1.00	0.00			0.00			0.00			0.00			0.00				0.00
202	12	384.25	0.10			0.00			0.00			0.00			0.00	3	179.69	8.31	46.76
203	160	18350.50	4.56			0.00	56	367.56	2.00	40	228.44	1.24	1054	598.56	3.26	1217	2563.00	1517.69	13.97
204	5	203.94	0.05			0.00			0.00	2	23.25	11.40	2	23.44	11.49	2	199.06	146.38	97.61
205	100	7043.44	1.75			0.00	62	186.06	2.64	26	62.94	0.89	455	285.88	4.06	509	406.81	316.63	5.78
206	256	69885.00	17.37			0.00	45	675.94	0.97	44	717.63	1.03	1188	1492.63	2.14	1308	3036.19	2391.94	4.34
207	7	163.75	0.04			0.00			0.00	1	0.06	0.04	1	0.06	0.04	2	7.44	7.44	4.54
208	110	18820.63	4.68			0.00	50	138.06	0.73	40	159.13	0.85	496	283.75	1.51	530	4450.19	2057.94	23.65
209	2	208.69	0.05			0.00			0.00			0.00			0.00	2	208.69	66.88	100.00
210	142	54656.38	13.58			0.00	11	24.06	0.04	24	154.44	0.28	594	237.94	0.44	687	682.69	552.50	1.25
211	83	7288.31	1.81			0.00	139	100.44	1.38	15	31.63	0.43	458	163.94	2.25	556	599.50	432.81	8.23
212	39	1078.13	0.27			0.00			0.00			0.00	16	2.38	0.22	19	278.94	110.69	25.87
213	38	465.06	0.12			0.00			0.00			0.00	8	0.94	0.20	24	251.44	61.44	54.07
214	8	1654.50	0.41			0.00	53	118.94	7.19	5	3.31	0.20	67	122.75	7.42	28	1553.81	300.75	93.91
215	187	22467.00	5.58			0.00	107	993.13	4.42	47	800.44	3.56	574	1735.56	7.72	496	3816.44	2656.56	16.99
216	92	15427.25	3.83			0.00	7	48.25	0.31	8	86.19	0.56	229	157.31	1.02	266	1515.81	1000.81	9.83
217	119	30549.00	7.59			0.00	11	182.38	0.60	8	36.81	0.12	136	217.31	0.71	163	500.25	404.38	1.64
218	86	13865.94	3.45			0.00	12	27.75	0.20	9	15.81	0.11	100	43.31	0.31	119	245.19	127.94	1.77
219	22	7594.06	1.89			0.00	1	4.94	0.07	2	2.50	0.03	3	7.56	0.10	5	966.81	309.69	12.73
220	43	9929.63	2.47			0.00			0.00	1	0.88	0.01	20	3.25	0.03	23	2828.25	968.31	28.48
221	10	825.50	0.21			0.00	1	0.13	0.02			0.00	3	0.25	0.03	8	802.31	433.31	97.19
222	30	4995.44	1.24			0.00	1	0.25	0.01	3	31.31	0.63	38	34.75	0.70	45	298.31	160.13	5.97
223	11	1312.00	0.33			0.00			0.00			0.00	4	0.56	0.04	6	1100.63	316.38	83.89
224	50	6594.50	1.64			0.00	14	5.50	0.08	4	133.56	2.03	108	148.94	2.26	60	893.81	346.56	13.55
225	34	10270.13	2.55			0.00	13	167.25	1.63	3	151.06	1.47	86	328.69	3.20	69	1689.13	1029.75	16.45
226	18	2570.50	0.64			0.00	21	23.06	0.90	3	4.50	0.18	69	32.88	1.28	54	976.94	531.50	38.01
227	32	2089.13	0.52			0.00	20	24.00	1.15	10	99.38	4.76	184	139.50	6.68	188	536.19	352.13	25.67
229	2	15.44	0.00			0.00			0.00			0.00			0.00				0.00
230	38	27965.75	6.95			0.00	16	914.06	3.27	21	287.00	1.03	285	1226.94	4.39	322	2911.19	1990.00	10.41
231	35	5013.94	1.25			0.00	129	201.00	4.01	44	107.06	2.14	281	275.06	5.49	342	1356.19	889.56	27.05
232	2	65.94	0.02			0.00			0.00			0.00			0.00	3	65.94	17.13	100.00
233	11	1509.44	0.38			0.00	1	0.25	0.02			0.00	56	6.31	0.42	72	128.81	74.56	8.53
235	26	3365.25	0.84			0.00	15	66.50	1.98	6	64.13	1.91	62	134.13	3.99	68	1724.75	1173.19	51.25

System Integer	# of patches in 2FC	Total area (ha) in 2FC	% of total area in 2FC	# of patches in federal lands	Total area (ha) in federal lands	% of system in federal lands	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) in CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) system in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																			
Stream Systems continued																			
236	1	4.44	0.00			0.00			0.00			0.00			0.00				0.00
238	10	1145.13	0.28			0.00			0.00			0.00	53	4.63	0.40	7	940.81	369.75	82.16
239	6	326.13	0.08			0.00			0.00			0.00			0.00	3	253.38	66.06	77.69
243	14	2180.81	0.54			0.00			0.00			0.00			0.00	4	1314.06	369.00	60.26
245	2	45.44	0.01			0.00			0.00			0.00			0.00				0.00
246	14	7030.44	1.75			0.00			0.00	1	31.56	0.45	1	31.56	0.45	5	1555.56	537.06	22.13
249	10	353.06	0.09			0.00			0.00			0.00			0.00	5	115.00	55.88	32.57
251	8	662.38	0.16			0.00			0.00			0.00	2	0.31	0.05	3	555.00	163.38	83.79
252	13	5456.50	1.36			0.00			0.00	2	39.38	0.72	6	40.00	0.73	12	2862.25	615.38	52.46
253	25	1270.63	0.32			0.00			0.00	1	0.06	0.00	9	0.75	0.06	8	328.38	63.25	25.84
254	11	3159.19	0.79			0.00			0.00	3	269.81	8.54	7	270.13	8.55	7	2635.69	981.75	83.43
Lake Systems																			
325	198	127.81	0.03			0.00	5	14.00	10.95	4	1.56	1.22	26	18.38	14.38	42	20.25	20.25	15.84
326	340	486.88	0.12			0.00	8	3.38	0.69	5	2.06	0.42	53	9.56	1.96	69	19.94	19.94	4.09
327	100	75.56	0.02			0.00	4	27.06	35.81	6	2.44	3.23	10	29.50	39.04	15	30.69	30.69	40.61
328	685	229.31	0.06			0.00	26	20.00	8.72	11	14.44	6.30	50	24.56	10.71	51	24.56	24.56	10.71
329	59	9.25	0.00			0.00			0.00			0.00	1	0.06	0.68	1	0.06	0.06	0.68
330	197	166.31	0.04			0.00	15	4.75	2.86	5	65.88	39.61	23	70.81	42.58	28	70.81	70.81	42.58
331	514	228.19	0.06			0.00	10	50.19	21.99	9	37.19	16.30	32	59.44	26.05	34	59.44	59.44	26.05
332	329	85.75	0.02			0.00	3	1.75	2.04	5	0.88	1.02	10	2.81	3.28	14	13.13	13.13	15.31
333	74	58.75	0.01			0.00	2	45.94	78.19			0.00	5	46.31	78.83	10	48.38	48.38	82.34
334	291	38.81	0.01			0.00	2	0.94	2.42	1	0.81	2.09	2	0.94	2.42	2	0.94	0.94	2.42
335	314	110.13	0.03			0.00	4	7.31	6.64	1	1.06	0.96	6	8.44	7.66	9	21.06	21.06	19.13
336	188	22.75	0.01			0.00	1	0.38	1.65	1	0.81	3.57	2	1.19	5.22	2	1.19	1.25	5.22
Wetland Systems																			
401	167	364.69	0.09			0.00	41	100.56	27.57	23	77.00	21.11	143	294.50	80.75	162	295.13	295.13	80.93
402	265	925.44	0.23			0.00	48	172.69	18.66	26	87.38	9.44	220	738.75	79.83	272	739.94	739.94	79.96
405	1210	3200.06	0.80			0.00	49	286.44	8.95	41	157.13	4.91	284	1200.00	37.50	333	1255.88	1255.88	39.25
406	1184	24820.38	6.17			0.00	57	8831.75	35.58	90	4794.75	19.32	517	19190.63	77.32	706	19306.38	19306.38	77.78
407	45	122.06	0.03			0.00	10	48.56	39.78	5	4.56	3.74	34	101.00	82.74	41	101.81	101.81	83.41
408	29	280.50	0.07			0.00	1	2.88	1.02	2	16.44	5.86	30	241.50	86.10	36	260.69	260.69	92.94
409	24	165.94	0.04			0.00	7	110.38	66.52	5	76.50	46.10	23	162.63	98.00	25	163.00	163.00	98.23
410	11	49.88	0.01			0.00	3	14.81	29.70	1	0.63	1.25	11	48.75	97.74	16	48.75	48.75	97.74
Non-Target Ecological Systems																			
Coastal Systems																			
124	7	17.69	0.00			0.00			0.00			0.00			0.00				0.00

System Integer	# of patches in 2FC	Total area (ha) in 2FC	% of total area in 2FC	# of patches in federal lands	Total area (ha) in federal lands	% of system in federal lands	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) in CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) system in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Non-Target Ecological Systems continued																			
Unclassified Ecological Systems																			
2	3	0.19	0.00			0.00			0.00	1	0.06	33.33	1	0.06	33.33				0.00
5	10	18.63	0.00	1	18.00	96.64			0.00			0.00	1	18.00	96.64	2	18.00	18.00	96.64
6	524	746.13	0.19			0.00	23	85.25	11.43	12	35.00	4.69	42	565.38	75.77	50	565.56	565.56	75.80

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Penetangore

Tertiary Watershed 2FD

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area:	123,772 hectares (305,840 acres)
Land Ownership:	Public Land ~ 1% Private Land ~ 99%
Planning Authority:	65% Bruce County 35% Huron County

General Description:

Tertiary watershed 2FD drains into Lake Huron and contains a significant amount of the coast. There are approximately 6,917 hectares of coastal areas, 111,517 hectares of stream systems, 141 hectares of lakes and 5,176 hectares of wetlands. Few interior water bodies are located in the watershed. Much of the Lake Huron shoreline is sandy beach. A small amount of natural cover, dominated by dense deciduous forest, remains scattered throughout the watershed. Other types of natural cover include mixed forest, sparse deciduous forest, dense coniferous forest and deciduous swamp.

Land Use:

Agricultural land heavily dominates this region, covering almost the entire area. A few developed settlements are present, including Kincardine. Some conifer plantations are also found throughout the region.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2FD is 5,533 hectares, constituting approximately 4.5% of the watershed's total area. Over one quarter of these lands (1,453 ha) are located in provincially protected areas. There are approximately 789 hectares of



protected coastal areas, 841 hectares of protected stream systems, 18 hectares of protected lakes and 3,878 hectares of protected wetlands.

Species and Vegetation Community Targets:

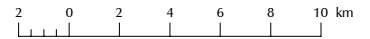
Five rare species occur in watershed 2FD. The primary targets are Schweinitz's Sedge (*Carex schweinitzii*), Ram's-head Lady's-slipper (*Cypripedium arietinum*) and Hill's Pondweed (*Potamogeton hillii*) and the secondary targets are Spotted Turtle (*Clemmys guttata*) and Queen Snake (*Regina septemvittata*). All of these rare species occur in 2FD protected areas and conservation lands, except for Schweinitz's Sedge and Queen Snake. Two rare vegetation communities have been documented in this watershed: Graminoid Coastal Meadow Marsh and Shrubby Cinquefoil Coastal Meadow Marsh.

Conservation Blueprint:

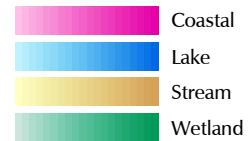
The Conservation Blueprint includes 1,840 hectares of coastal areas, 21,072 hectares of stream systems, 18 hectares of lakes and 3,930 hectares of wetlands. The Conservation Blueprint also includes all of the occurrences for all the primary targets and secondary targets, except for Queen Snake.

Great Lakes Conservation Blueprint for Biodiversity

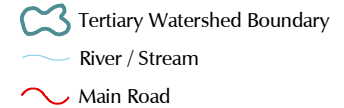
PENETANGORE WATERSHED 2FD



Aquatic Ecological Systems



Other Information



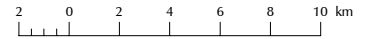
Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

PENETANGORE WATERSHED 2FD



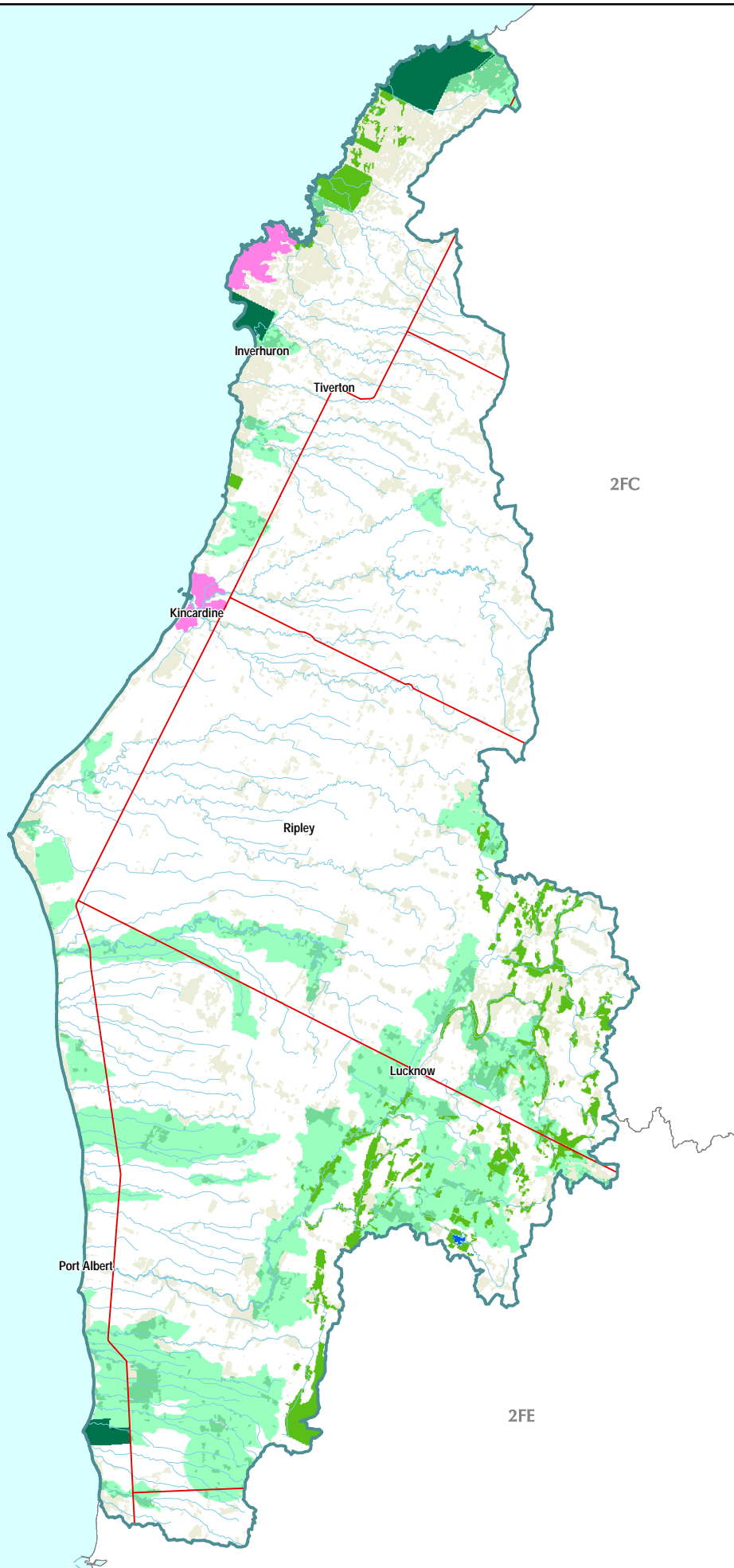
2FC

Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



2FE



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Documented extant vegetation communities and significant species information for tertiary watershed 2FD

# of pops in 2FD	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in Parks and PAs	% of pops in Parks and PAs	# of pops in PS LS-ANSIs	% of pops in PS LS-ANSIs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species																
2	<i>Clemmys guttata</i>	Spotted Turtle	G5	S3	END	SC	SAR	1	50	0	0	2	100	2	100	secondary
2	<i>Regina septemvittata</i>	Queen Snake	G5	S2	THR	THR	SAR	0	0	0	0	0	0	0	0	secondary
1	<i>Carex schweinitzii</i>	Schweinitz's Sedge	G3	S3			GRank	0	0	0	0	0	0	1	100	2
2	<i>Cypripedium arietinum</i>	Ram's-head Lady's-slipper	G3	S3			GRank	2	100	0	0	2	100	2	100	2
1	<i>Potamogeton hillii</i>	Hill's Pondweed	G3	S2	SC	THR	GRank SAR	0	0	1	100	1	100	1	100	4
Communities																
1	Graminoid Coastal Meadow Marsh Type		G2?	S2			GRank	1	100	0	0	1	100	1	100	all viable
1	Shrubby Cinquefoil Coastal Meadow Marsh Type		G2?	S1			GRank	1	100	0	0	1	100	1	100	all viable

Ecological systems summary for tertiary watershed 2FD

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	6917.56	5.59	789.19	11.41	1840.44	26.61	1370.13	19.81
Stream Systems	111517.06	90.10	841.44	0.75	21072.94	18.90	3903.94	3.50
Lake Systems	141.94	0.11	18.13	12.77	18.13	12.77	18.13	12.77
Wetland Systems	5176.38	4.18	3878.44	74.93	3930.44	75.93	3930.44	75.93
Tertiary watershed	123772.06	100.00	5533.13	4.47	26867.88	21.71	9228.56	7.46

Ecological systems details for tertiary watershed 2FD

System Integer	# of patches in 2FD	Total area (ha) in 2FD	% of total area in 2FD	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) in CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																			
Coastal Systems																			
101	1	12.13	0.01			0.00			0.00			0.00			0.00	1	12.13	12.13	100.00
104	3	3.38	0.00			0.00			0.00			0.00			0.00	3	3.38	3.38	100.00
105	19	184.69	0.15	21	15.00	8.12	3	4.75	2.57	1	1.88	1.02	24	21.81	11.81	38	32.38	32.38	17.53
107	5	148.50	0.12	4	26.38	17.76	1	12.25	8.25			0.00	5	38.63	26.01	11	144.44	144.44	97.26

System Integer	# of patches in 2FD	Total area (ha) in 2FD	% of total area in 2FD	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) in CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																			
Coastal Systems continued																			
108	26	45.13	0.04	4	2.19	4.85	3	3.63	8.03			0.00	17	7.69	17.04	17	11.25	11.25	24.93
113	12	15.63	0.01			0.00	1	1.31	8.40			0.00	15	3.38	21.60	16	8.31	8.31	53.20
116	21	30.38	0.02	7	3.63	11.93			0.00	2	1.13	3.70	36	8.13	26.75	52	8.94	8.94	29.42
125	31	1046.56	0.85	1	0.44	0.04	4	1.75	0.17			0.00	5	2.19	0.21	8	318.25	39.50	30.41
126	28	1303.63	1.05	19	399.06	30.61			0.00			0.00	37	400.63	30.73	41	449.50	446.31	34.48
127	53	3687.06	2.98	15	118.44	3.21	22	65.81	1.78	5	62.25	1.69	126	256.31	6.95	145	801.44	613.06	21.74
199	51	397.13	0.32	8	48.94	12.32	6	1.50	0.38			0.00	14	50.44	12.70	14	50.44	50.44	12.70
Stream Systems																			
202	6	1001.94	0.81			0.00			0.00			0.00			0.00	8	852.63	55.63	85.10
203	10	1300.75	1.05			0.00			0.00			0.00	87	8.31	0.64	7	1243.94	358.75	95.63
205	4	86.81	0.07			0.00	4	3.00	3.46			0.00	4	3.00	3.46	2	4.00	4.00	4.61
206	74	7409.94	5.99	3	95.44	1.29	9	56.56	0.76			0.00	237	174.88	2.36	264	185.81	185.81	2.51
208	6	668.81	0.54	3	6.44	0.96			0.00			0.00	3	6.44	0.96	13	485.25	82.13	72.55
209	4	105.69	0.09	2	34.56	32.70			0.00			0.00	2	34.56	32.70	3	102.25	36.44	96.75
210	38	8045.81	6.50	7	114.13	1.42			0.00	5	40.81	0.51	315	183.63	2.28	361	184.25	184.25	2.29
212	32	1567.25	1.27	1	6.81	0.43	2	2.06	0.13			0.00	3	8.88	0.57	5	365.94	42.94	23.35
213	29	2390.13	1.93			0.00			0.00			0.00	49	4.38	0.18	32	2002.38	145.63	83.78
215	24	2941.19	2.38			0.00	5	58.13	1.98			0.00	327	88.44	3.01	319	418.81	209.13	14.24
216	7	243.88	0.20			0.00			0.00			0.00	28	1.88	0.77	16	107.69	20.31	44.16
217	35	62233.56	50.28	1	85.56	0.14	8	2.13	0.00	1	1.88	0.00	220	112.81	0.18	99	4284.13	542.56	6.88
218	31	4962.44	4.01			0.00	26	2.75	0.06	5	14.88	0.30	129	29.75	0.60	134	359.06	66.25	7.24
219	1	29.69	0.02			0.00			0.00			0.00			0.00				0.00
220	13	4577.63	3.70			0.00			0.00	1	0.06	0.00	10	0.69	0.02	7	6.06	5.56	0.13
222	6	2137.94	1.73			0.00			0.00	1	0.38	0.02	85	8.13	0.38	4	2130.19	357.56	99.64
223	2	11.75	0.01			0.00			0.00			0.00			0.00				0.00
224	1	4.00	0.00			0.00			0.00			0.00			0.00				0.00
225	8	1618.19	1.31			0.00			0.00			0.00	8	0.69	0.04	11	1552.88	308.13	95.96
227	1	2.38	0.00			0.00			0.00			0.00			0.00				0.00
228	2	7.13	0.01			0.00			0.00			0.00	2	0.13	1.75	2	0.13	0.13	1.75
230	4	758.50	0.61			0.00			0.00	1	0.13	0.02	1	0.13	0.02	3	752.88	155.88	99.26
239	1	19.94	0.02			0.00			0.00	1	7.75	38.87	1	7.75	38.87	1	7.75	7.75	38.87
242	7	964.00	0.78	1	77.56	8.05	1	0.06	0.01			0.00	2	77.63	8.05	4	678.50	242.50	70.38
243	1	71.19	0.06			0.00			0.00			0.00			0.00	1	71.19	48.13	100.00
246	14	1.00	0.00			0.00			0.00			0.00			0.00	17	1.06		100
248	9	3791.44	3.06	1	10.50	0.28			0.00			0.00	1	10.50	0.28	5	2418.13	386.38	63.78
250	1	2062.56	1.67			0.00	1	2.81	0.14			0.00	1	2.81	0.14	2	2062.56	178.75	100.00

System Integer	# of patches in 2FD	Total area (ha) in 2FD	% of total area in 2FD	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) in CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																			
Stream Systems continued																			
251	6	793.44	0.64	2	75.88	9.56			0.00			0.00	3	76.06	9.59	11	455.88	204.50	57.46
252	1	0.06	0.00			0.00			0.00			0.00			0.00				0.00
253	22	1667.06	1.35			0.00			0.00			0.00			0.00	30	339.63	74.88	20.37
254	1	41.00	0.03			0.00			0.00			0.00			0.00				0.00
Lake Systems																			
325	15	7.38	0.01	1	0.06	0.85			0.00			0.00	1	0.06	0.85	1	0.06	0.06	0.85
326	24	18.88	0.02	1	0.31	1.66			0.00			0.00	1	0.31	1.66	3	0.31	0.31	1.66
327	5	2.44	0.00	1	0.38	15.38			0.00			0.00	1	0.38	15.38	1	0.38	0.38	15.38
328	60	10.44	0.01			0.00			0.00			0.00	1	0.06	0.60	1	0.06	0.06	0.60
329	20	7.06	0.01			0.00			0.00	1	0.06	0.88	3	0.44	6.19	4	0.44	0.44	6.19
331	81	15.56	0.01			0.00	2	0.13	0.80			0.00	2	0.13	0.80	2	0.13	0.13	0.80
332	3	1.31	0.00	1	1.06	80.95			0.00			0.00	1	1.06	80.95	1	1.06	1.06	80.95
333	41	23.31	0.02			0.00			0.00	4	15.19	65.15	4	15.19	65.15	7	15.19	15.19	65.15
334	78	12.75	0.01	1	0.50	3.92			0.00			0.00	1	0.50	3.92	1	0.50	0.50	3.92
335	3	0.38	0.00			0.00			0.00			0.00			0.00				0.00
336	137	42.44	0.03			0.00			0.00			0.00			0.00				0.00
Wetland Systems																			
401	25	89.56	0.07	3	19.75	22.05	3	3.38	3.77	1	0.19	0.21	14	30.38	33.91	17	61.13	61.13	68.25
402	11	42.75	0.03			0.00	3	6.00	14.04			0.00	4	8.31	19.44	5	8.31	8.31	19.44
405	270	1063.00	0.86	43	152.31	14.33	4	9.69	0.91	9	22.25	2.09	132	552.69	51.99	139	559.06	559.06	52.59
406	125	3888.00	3.14	8	141.38	3.64	3	561.19	14.43	6	253.00	6.51	93	3203.44	82.39	133	3218.31	3218.31	82.78
407	31	49.00	0.04	14	13.31	27.17	2	1.00	2.04	2	2.50	5.10	32	40.75	83.16	38	40.75	40.75	83.16
408	4	44.06	0.04			0.00	2	4.69	10.64			0.00	4	42.88	97.30	5	42.88	42.88	97.30
Non-Target Ecological Systems																			
Coastal Systems																			
121	3	12.00	0.01			0.00			0.00			0.00			0.00				0.00
122	3	6.13	0.00			0.00			0.00			0.00			0.00				0.00
124	18	25.25	0.02			0.00			0.00			0.00			0.00				0.00
Unclassified Ecological Systems																			
5	61	7.69	0.01	4	0.25	3.25	6	0.69	8.94	1	0.06	0.81	13	1.13	14.63	13	1.13	1.13	14.63
6	23	11.44	0.01	4	2.94	25.68			0.00	1	0.69	6.01	11	4.81	42.08	15	4.81	4.81	42.08

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Maitland

Tertiary Watershed 2FE

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area: 267,078 hectares (659,949 acres)

Land Ownership: Public Land ~ 1%
Private Land ~ 99%

Planning Authority: 69% Huron County
20% Perth County
11% Wellington County

General Description:

Tertiary watershed 2FE drains into Lake Huron and includes the Maitland River. There are approximately 1,047 hectares of coastal areas, 251,493 hectares of stream systems, 315 hectares of lakes and 14,075 hectares of wetlands. The watershed contains a small section of Lake Huron shoreline. The remaining natural cover is dominated by dense deciduous forest and also includes mixed forest, sparse deciduous forest, and a small number of deciduous swamps scattered throughout the watershed.

Land Use:

Agricultural lands cover the majority of the region. A few settled areas and pastures are also present. Goderich and Listowel are the main communities of watershed 2FE. A number of other rural communities exist, including Teviotdale to the east, Brodhagen to the south, and Wroxeter to the north.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2FE is 8,337 hectares, constituting approximately 3% of the watershed's total area. The majority of these lands are designated as provincially significant wetlands. There are 1,144 hectares of protected stream systems, 12 hectares of protected lakes and 7,077 hectares of protected wetlands, but no protected coastal areas.



Species and Vegetation Community Targets:

Nine species targets are known from watershed 2FE: the primary target is Ram's-head Lady's-slipper (*Cypripedium arietinum*) and the secondary targets are Green Dragon (*Arisaema dracontium*), Black Tern (*Chlidonias niger*), Redside Dace (*Clinostomus elongatus*), Wood Turtle (*Glyptemys insculpta*), Least Bittern (*Ixobrychus exilis*), Wavy-rayed Lampmussel (*Lampsilis fasciola*), Black Redhorse (*Moxostoma duquesnei*) and Queen Snake (*Regina septemvittata*). Green Dragon is the only species target known from a protected area or conservation land.

Conservation Blueprint:

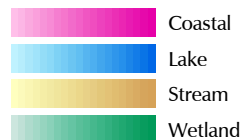
The Conservation Blueprint includes 415 hectares of coastal areas, 33,141 hectares of stream systems, 20 hectares of lakes and 7,520 hectares of wetlands. The Conservation Blueprint also includes all known occurrences for all primary and secondary targets except for Green Dragon (6 of 9) and Wood Turtle (3 of 4).

Great Lakes Conservation Blueprint for Biodiversity

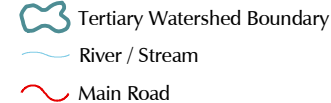
MAITLAND WATERSHED 2FE



Aquatic Ecological Systems



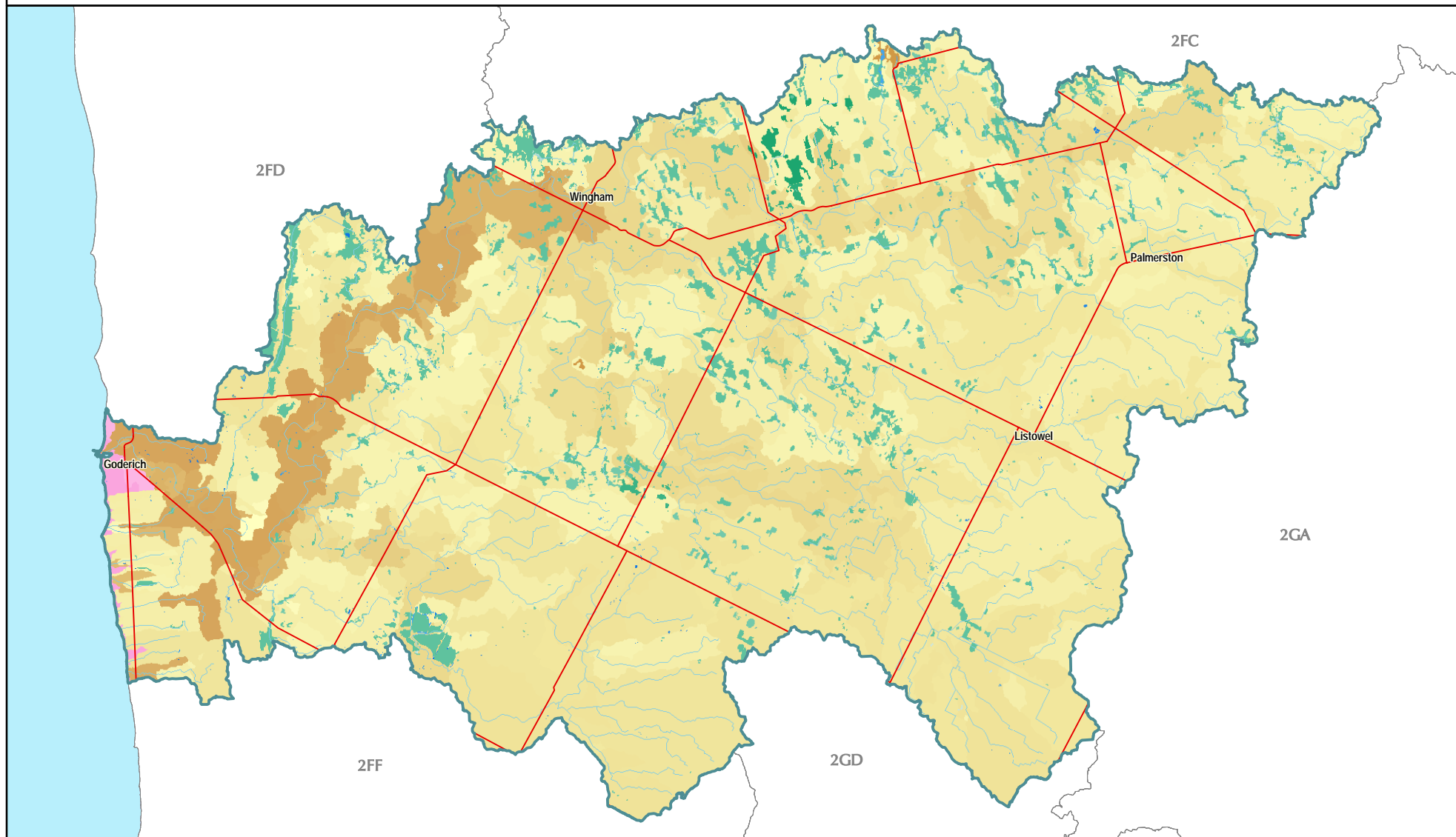
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Great Lakes Conservation Blueprint for Biodiversity

MAITLAND WATERSHED 2FE



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

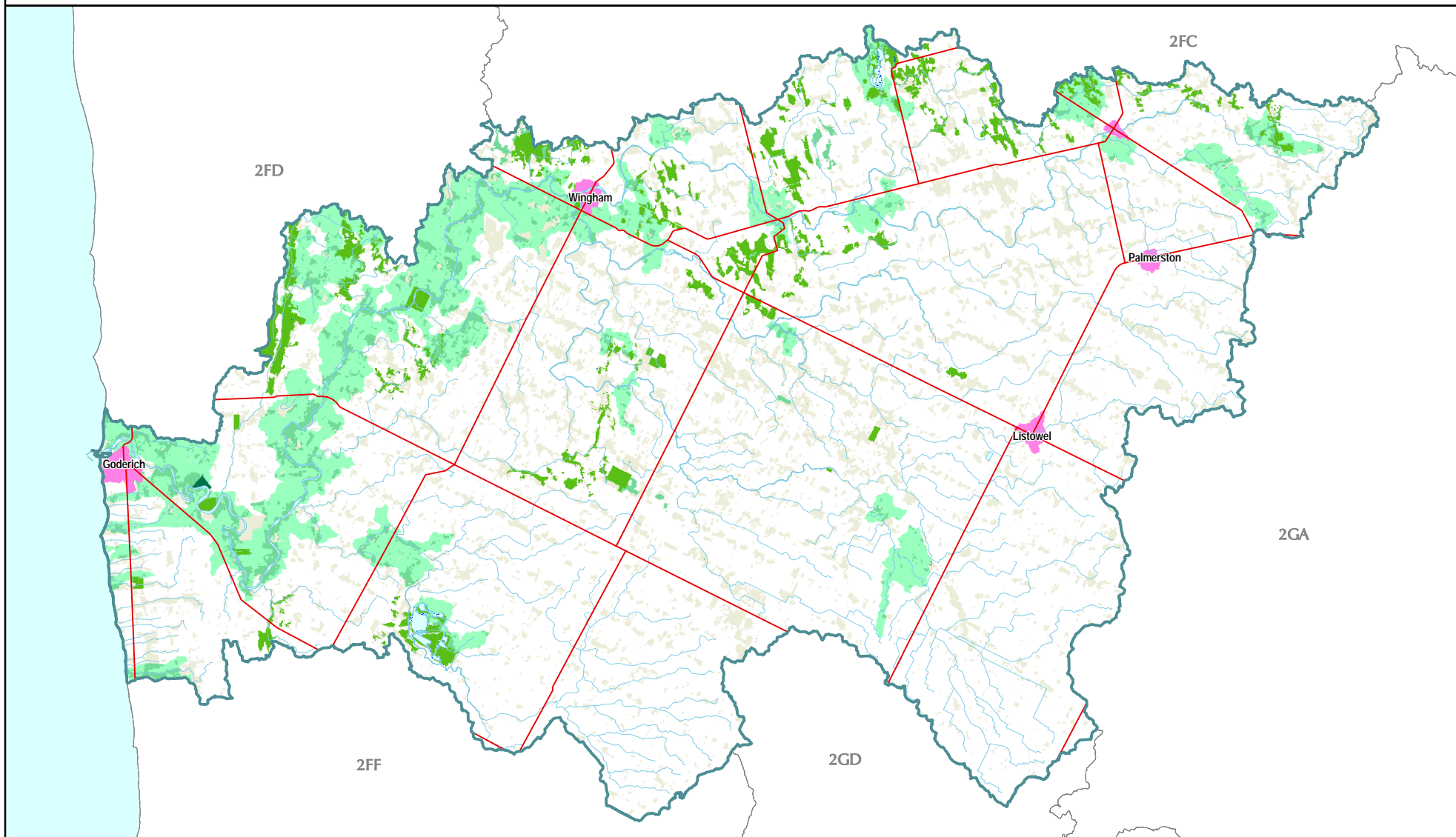
- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Documented extant vegetation communities and significant species information for tertiary watershed 2FE

# of pops in 2FE	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in Parks and PAs	% of pops in Parks and PAs	# of pops in CAs	% of pops in CAs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species																
1	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	0	0	0	0	0	1	100	secondary
1	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	0	0	0	1	100	1	100	secondary
1	<i>Clinostomus elongatus</i>	Redside Dace	G4	S3	SC	THR	SAR	0	0	0	0	0	0	1	100	secondary
2	<i>Moxostoma duquesnei</i>	Black Redhorse	G5	S2	THR	THR	SAR	0	0	0	0	0	0	2	100	secondary
4	<i>Glyptemys insculpta</i>	Wood Turtle	G4	S2	SC	END	SAR	0	0	0	0	1	25	3	75	secondary
1	<i>Regina septemvittata</i>	Queen Snake	G5	S2	THR	THR	SAR	0	0	0	0	0	0	1	100	secondary
1	<i>Lampsilis fasciola</i>	Wavy-rayed Lampmussel	G4	S1	END	END	SAR	0	0	0	0	0	0	1	100	secondary
9	<i>Arisaema dracontium</i>	Green Dragon	G5	S3	SC	SC	SAR	1	11	1	11	2	22	6	67	secondary
1	<i>Cypripedium arietinum</i>	Ram's-head Lady's-slipper	G3	S3			GRank	0	0	0	0	0	0	1	100	2

Ecological systems summary for tertiary watershed 2FE

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	1047.81	0.39	0.00	0.00	415.19	39.62	149.94	14.31
Stream Systems	251493.56	94.16	1144.19	0.45	33141.81	13.18	7853.00	3.12
Lake Systems	315.25	0.12	12.69	4.02	20.31	6.44	20.31	6.44
Wetland Systems	14075.38	5.27	7077.81	50.29	7520.00	53.43	7520.00	53.43
Tertiary watershed	267078.88	100.00	8337.13	3.12	41199.75	15.43	15645.56	5.86

Ecological systems details for tertiary watershed 2FE

System Integer	# of patches in 2FE	Total area (ha) in 2FE	% of total area in 2FE	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) in CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																			
Coastal Systems																			
101	2	14.75	0.01			0.00			0.00			0.00			0.00	2	14.75	14.75	100
104	4	8.75	0.00			0.00			0.00			0.00			0.00	3	7.13	7.13	81.43
105	3	34.75	0.01			0.00			0.00			0.00			0.00	3	34.75	34.75	100
107	2	27.00	0.01			0.00			0.00			0.00			0.00	2	27.06	27.06	100
108	3	7.44	0.00			0.00			0.00			0.00			0.00	4	7.50	7.50	100
116	1	2.75	0.00			0.00			0.00			0.00			0.00	1	2.75	2.75	100

System Integer	# of patches in 2FE	Total area (ha) in 2FE	% of total area in 2FE	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) in CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																			
Coastal Systems continued																			
125	27	637.94	0.24			0.00			0.00			0.00			0.00	4	21.63	18.81	3.39
127	2	299.63	0.11			0.00			0.00			0.00			0.00	2	299.63	37.19	100
199	3	4.25	0.00			0.00			0.00			0.00			0.00				0.00
Stream Systems																			
202	7	495.44	0.19			0.00			0.00			0.00	3	0.25	0.05	8	364.69	134.50	73.61
203	74	905.81	0.34			0.00			0.00	1	2.00	0.22	57	6.63	0.73	55	493.31	145.00	54.46
204	1	50.69	0.02			0.00			0.00			0.00			0.00	1	50.69	8.31	100.00
205	8	624.13	0.23			0.00			0.00			0.00	56	6.00	0.96	16	588.31	100.06	94.26
206	165	33327.06	12.48			0.00	1	1.00	0.00	30	98.44	0.30	769	173.19	0.52	857	337.19	253.44	1.01
207	5	147.63	0.06	1	13.94	9.44			0.00			0.00	1	14.44	9.78	3	119.44	29.13	80.91
208	25	2289.50	0.86			0.00			0.00			0.00	37	3.38	0.15	11	642.63	86.06	28.07
209	1	6.13	0.00			0.00			0.00			0.00			0.00				0.00
210	132	50857.75	19.04			0.00			0.00	7	68.31	0.13	366	102.75	0.20	371	748.50	244.69	1.47
211	5	281.31	0.11			0.00	9	16.63	5.91	5	0.31	0.11	30	18.88	6.71	15	221.38	39.19	78.69
212	23	896.56	0.34			0.00			0.00			0.00			0.00	3	516.06	110.19	57.56
213	7	513.56	0.19			0.00			0.00	1	2.31	0.45	43	6.44	1.25	9	391.56	72.69	76.24
214	19	515.13	0.19			0.00			0.00			0.00	77	6.56	1.27	57	272.75	55.00	52.95
215	83	16603.81	6.22			0.00	3	14.44	0.09	5	6.44	0.04	439	66.13	0.40	379	1557.06	496.19	9.38
216	62	36792.31	13.78	1	8.63	0.02	1	42.88	0.12	6	8.50	0.02	262	85.13	0.23	235	1727.50	342.69	4.70
217	81	23857.31	8.93			0.00			0.00	1	25.81	0.11	90	35.06	0.15	70	752.75	99.38	3.16
218	34	20374.13	7.63			0.00	40	131.25	0.64	22	38.13	0.19	84	149.94	0.74	108	272.44	156.13	1.34
219	7	1691.88	0.63			0.00			0.00			0.00			0.00	4	1561.44	158.88	92.29
220	11	2441.69	0.91			0.00			0.00			0.00	47	4.63	0.19	57	897.06	112.50	36.74
222	25	17293.31	6.47			0.00			0.00	5	4.81	0.03	158	19.56	0.11	168	1570.31	253.81	9.08
224	27	17609.25	6.59			0.00			0.00	13	49.75	0.28	222	72.94	0.41	261	511.06	138.13	2.90
225	16	2847.75	1.07			0.00			0.00	1	2.50	0.09	15	3.50	0.12	3	1548.00	183.44	54.36
226	16	32.06	0.01			0.00			0.00			0.00	20	1.69	5.26	20	1.69	1.69	5.26
230	15	2317.75	0.87			0.00			0.00			0.00	22	2.44	0.11	19	1026.69	183.69	44.30
238	2	162.25	0.06			0.00			0.00			0.00			0.00	2	162.25	27.13	100.00
239	5	82.38	0.03			0.00			0.00			0.00			0.00	3	73.50	6.81	89.23
240	5	159.63	0.06			0.00			0.00	1	8.88	5.56	1	8.88	5.56	5	159.63	37.88	100.00
242	1	32.00	0.01			0.00			0.00			0.00			0.00				0.00
243	16	1460.06	0.55			0.00			0.00	3	66.00	4.52	3	66.00	4.52	10	887.00	271.13	60.75
245	3	92.50	0.03			0.00			0.00			0.00			0.00	5	92.50	14.69	100.00
246	7	4317.75	1.62			0.00			0.00	3	18.63	0.43	24	20.69	0.48	7	4308.56	1006.75	99.79
249	4	414.81	0.16	2	36.13	8.71			0.00			0.00	1	38.25	9.22	3	392.31	210.31	94.58
248	4	324.38	0.12			0.00			0.00			0.00			0.00	6	324.38	135.00	100.00
251	5	6509.56	2.44			0.00			0.00	6	177.00	2.72	7	177.13	2.72	8	6509.38	1713.13	100.00
252	4	361.38	0.14			0.00			0.00			0.00			0.00	4	355.75	157.50	98.44

System Integer	# of patches in 2FE	Total area (ha) in 2FE	% of total area in 2FE	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) in CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																			
Stream Systems continued																			
253	8	2877.00	1.08			0.00			0.00	1	13.63	0.47	1	13.63	0.47	4	2006.44	340.63	69.74
254	4	1725.81	0.65			0.00			0.00	2	38.88	2.25	8	40.13	2.32	4	1697.63	527.31	98.37
Lake Systems																			
325	71	30.56	0.01			0.00			0.00			0.00	10	0.63	2.04	10	0.63	0.63	2.04
326	63	64.38	0.02			0.00			0.00	1	3.00	4.66	50	8.50	13.20	44	16.00	16.00	24.85
327	62	16.13	0.01			0.00			0.00			0.00	1	0.06	0.39	1	0.06	0.06	0.39
328	221	42.56	0.02			0.00			0.00			0.00	1	0.06	0.15	1	0.06	0.06	0.15
329	56	21.25	0.01			0.00			0.00	1	0.13	0.59	4	0.38	1.76	5	0.38	0.38	1.76
330	19	4.75	0.00			0.00			0.00			0.00			0.00				0.00
331	83	18.56	0.01			0.00			0.00	1	0.13	0.67	1	0.13	0.67	3	0.25	0.13	1.35
332	158	43.69	0.02			0.00			0.00			0.00	1	0.19	0.43	2	0.19	0.19	0.43
333	37	17.06	0.01			0.00			0.00			0.00	11	1.31	7.69	11	1.31	1.31	7.69
334	146	38.38	0.01			0.00			0.00			0.00	6	0.44	1.14	7	0.44	0.44	1.14
335	42	7.94	0.00			0.00			0.00	1	0.06	0.79	2	0.44	5.51	2	0.44	0.44	5.51
336	48	10.00	0.00			0.00	1	0.44	4.38	1	0.13	1.25	2	0.56	5.63	2	0.56	0.56	5.63
Wetland Systems																			
401	41	61.00	0.02			0.00			0.00	1	0.81	1.33	19	18.81	30.84	27	23.56	23.56	38.63
402	41	102.00	0.04			0.00			0.00	1	2.88	2.82	26	60.75	59.56	30	62.44	62.44	61.21
405	554	2365.69	0.89			0.00	1	1.50	0.06	7	40.69	1.72	122	781.81	33.05	133	813.63	813.63	34.39
406	492	10635.00	3.98			0.00	7	450.75	4.24	20	491.38	4.62	203	5636.75	53.00	265	5787.38	5787.38	54.42
407	6	63.19	0.02			0.00			0.00			0.00			0.00	6	63.19	63.19	100.00
408	17	271.81	0.10			0.00			0.00	2	22.50	8.28	2	22.50	8.28	7	198.50	198.50	73.03
409	7	119.00	0.04			0.00			0.00			0.00	7	113.31	95.22	7	118.81	118.81	99.84
410	16	457.69	0.17			0.00			0.00	2	62.00	13.55	17	443.88	96.98	18	452.50	452.50	98.87
Non-Target Ecological Systems																			
Coastal Systems																			
124	8	10.56	0.00			0.00			0.00			0.00			0.00				0.00
Unclassified Ecological Systems																			
2	6	202.13	0.08			0.00			0.00	1	29.06	14.38			0.00				0.00
5	3	0.25	0.00			0.00			0.00			0.00			0.00				0.00
6	148	146.63	0.05			0.00			0.00			0.00	1	102.44	69.86	5	102.44	102.44	69.86

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Ausable

Tertiary Watershed 2FF

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area:	309,274 hectares (764,216 acres)
Land Ownership:	Public Land ~ 2% Private Land ~ 98% First Nations Lands ~ 1%
Planning Authority:	36% Huron County 29% Middlesex County 28% Lambton County 7% Perth County

General Description:

Tertiary watershed 2FF drains into southern Lake Huron and includes the Ausable River. There are approximately 1,314 hectares of coastal areas, 61,322 hectares of stream systems, 114 hectares of lakes and 2,750 hectares of wetlands. Watershed 2FF contains a large stretch of Lake Huron coastline from Bayfield to the community of Point Edward at the St. Clair River. A small amount of natural cover, dominated by dense deciduous forest, remains scattered throughout the watershed. Other types of natural cover include mixed forest, sparse deciduous forest and deciduous swamp.

Land Use:

Agricultural activity heavily dominates the land cover in this watershed, covering almost the entire area. A few settlements are present including Lambton Shores, Zurich and Grand Bend. A small number of conifer plantations are also found throughout the region.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2FF is 11,701 hectares, constituting approximately 3.8% of the watershed's total area. Almost half of these lands (5,358 hectares) are located in provincially significant life science ANSIs of which 937 hectares coincide with provincial parks. There are approximately 473 hectares of protected



coastal areas 8,478 hectares of protected stream systems, 95 hectares of protected lakes and 2,653 hectares of protected wetlands.

Species and Vegetation Community Targets:

Seventeen species targets occur in watershed 2FF. Primary targets include Ram's-head Lady's-slipper (*Cypripedium arietinum*), Northern Riffleshell (*Epioblasma torulosa rangiana*), Snuffbox (*Epioblasma triquetra*) and Pugnose Shiner (*Notropis anogenus*). There are occurrences for 11 of the 17 species targets in conservation lands. Graminoid Coastal Meadow Marsh and Silver/Red Maple Mineral Deciduous Swamp are two significant vegetation communities in this watershed.

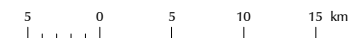
Conservation Blueprint:

The Conservation Blueprint includes 1,341 hectares of coastal areas, 61,322 hectares of stream systems, 114 hectares of lakes and 2,750 hectares of wetlands. The Conservation Blueprint includes all of the occurrences for primary targets Northern Riffleshell, Snuffbox and Pugnose Shiner, and four out of six occurrences of Ram's-head Lady's-slipper. The portfolio also includes all of the known occurrences for the vegetation communities of Graminoid Coastal Meadow Marsh and Silver/Red Maple Mineral Deciduous Swamp.

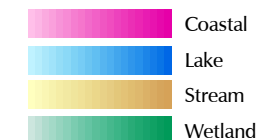


Great Lakes Conservation Blueprint for Biodiversity

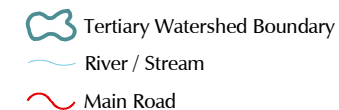
AUSABLE WATERSHED 2FF



Aquatic Ecological Systems



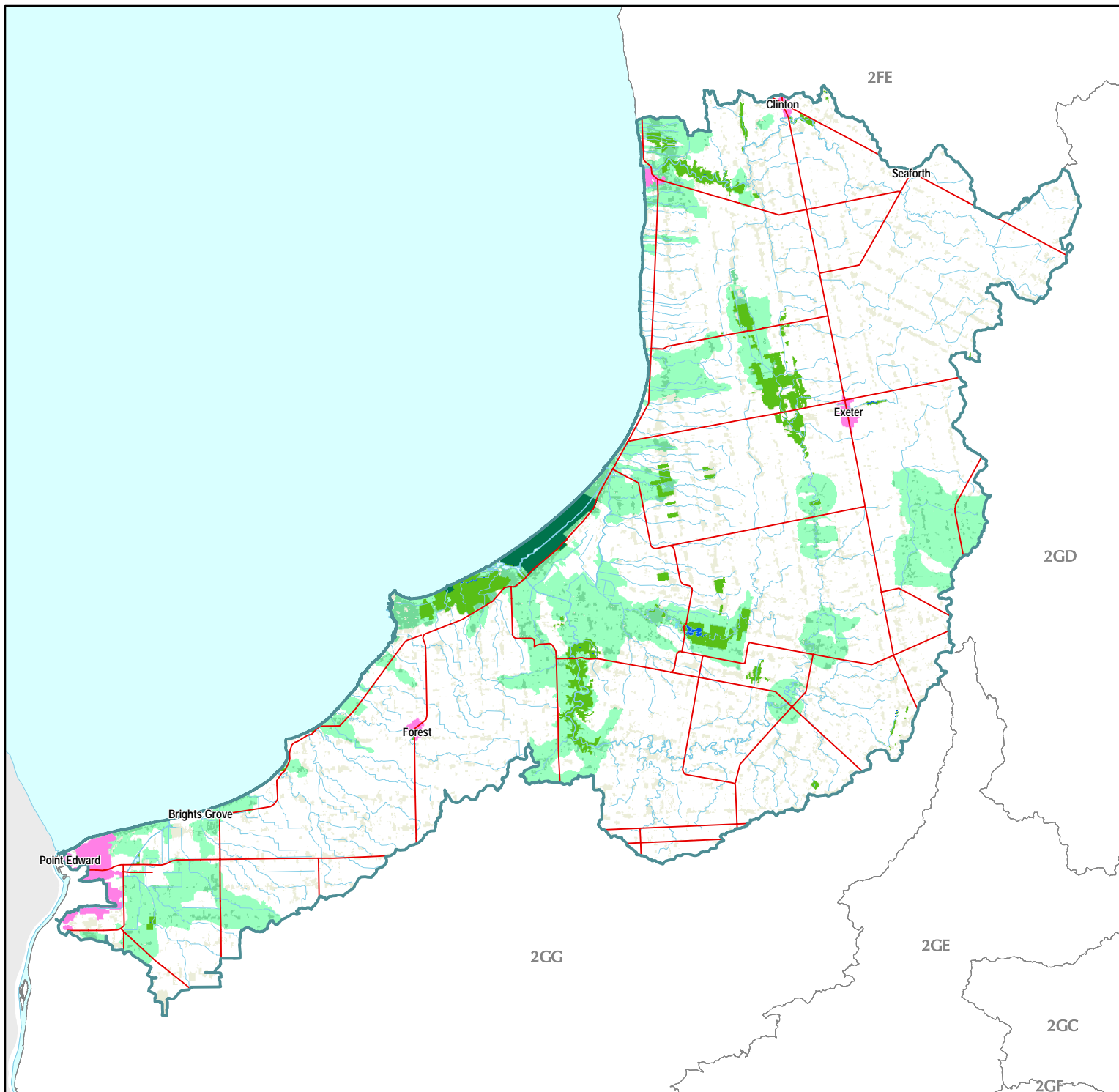
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

AUSABLE WATERSHED 2FF



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Documented extant vegetation communities and significant species information for tertiary watershed 2FF

# of pops in 2FF	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in Parks and PAs	% of pops in PS LS-ANSIs	% of pops in CAs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species															
1	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S4B,SZN	NAR	END-R	SAR	100	100	0	1	100	1	100	secondary
2	<i>Seiurus motacilla</i>	Louisiana Waterthrush	G5	S3B,SZN	SC	SC	SAR	0	100	50	2	100	2	100	secondary
1	<i>Notropis anogenus</i>	Pugnose Shiner	G3	S2	END	END	GRank SAR	0	0	0	0	0	1	100	4
2	<i>Clemmys guttata</i>	Spotted Turtle	G5	S3	END	SC	SAR	0	0	0	0	0	2	100	secondary
2	<i>Glyptemys insculpta</i>	Wood Turtle	G4	S2	SC	END	SAR	0	0	0	0	0	0	0	secondary
6	<i>Graptemys geographica</i>	Northern Map Turtle	G5	S3	SC	SC	SAR	0	67	17	4	67	5	83	secondary
9	<i>Sternotherus odoratus</i>	Stinkpot	G5	S3	THR	THR	SAR	56	78	11	7	78	9	100	secondary
1	<i>Apalone spinifera</i>	Spiny Softshell	G5	S3	THR	THR	SAR	0	0	0	0	0	1	100	secondary
1	<i>Regina septemvittata</i>	Queen Snake	G5	S2	THR	THR	SAR	0	100	100	1	100	1	100	secondary
4	<i>Epioblasma torulosa rangiana</i>	Northern Riffleshell	G2T2	S1	END	END	GRank SAR	0	25	0	1	25	4	100	all viable
3	<i>Epioblasma triquetra</i>	Snuffbox	G3	S1	END	END	GRank SAR	0	33	33	1	33	3	100	2
7	<i>Lampsilis fasciola</i>	Wavy-rayed Lampmussel	G4	S1	END	END	SAR	0	0	0	0	0	4	57	secondary
7	<i>Solidago riddellii</i>	Riddell's Goldenrod	G5	S3	SC	SC	SAR	0	29	14	3	43	5	71	secondary
2	<i>Quercus shumardii</i>	Shumard Oak	G5	S3	SC	SC	SAR	0	0	0	0	0	0	0	secondary
3	<i>Plantago cordata</i>	Heart-leaved Plantain	G4	S1	END	END-R	SAR	0	67	33	3	100	3	100	secondary
6	<i>Arisaema dracontium</i>	Green Dragon	G5	S3	SC	SC	SAR	17	33	0	3	50	4	67	secondary
3	<i>Cypripedium arietinum</i>	Ram's-head Lady's-slipper	G3	S3			GRank	0	67	0	2	67	2	67	2
Communities															
2	Graminoid Coastal Meadow Marsh Type		G2?	S2			GRank	50	100	0	2	100	2	100	all viable
2	Silver / Red Maple Mineral Deciduous Swamp Type		G4?	S5			high quality	0	100	0	2	100	2	100	secondary

Ecological systems summary for tertiary watershed 2FF

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	4074.00	1.32	473.19	11.61	1341.94	32.94	859.69	21.10
Stream Systems	301131.13	97.37	8478.69	2.82	61322.81	20.36	15870.63	5.27
Lake Systems	421.13	0.14	95.94	22.78	114.50	27.19	114.50	27.19
Wetland Systems	3436.75	1.11	2653.81	77.22	2750.63	80.04	2750.63	80.04
Tertiary watershed	309274.94	100.00	11701.63	3.78	65532.38	21.19	19597.81	6.34

Ecological systems details for tertiary watershed 2FF

System Integer	# of patches in 2FF	Total area (ha) in 2FF	% of total area in 2FF	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) in CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																			
Coastal Systems																			
101	5	46.69	0.02			0.00			0.00	1	1.56	3.35	1	1.56	3.35	3	32.50	32.50	69.61
104	4	13.81	0.00	1	1.75	12.67	1	1.75	12.67			0.00	1	1.75	12.67	3	7.38	7.38	53.39
105	15	190.44	0.06	2	2.63	1.38	4	18.75	9.85			0.00	4	18.75	9.85	6	46.50	46.50	24.42
106	2	77.81	0.03	5	48.75	62.65	2	12.88	16.55	3	2.88	3.69	8	51.75	66.51	2	77.88	77.88	100
107	1	38.13	0.01			0.00			0.00			0.00			0.00	1	38.25	38.25	100
108	8	60.88	0.02			0.00			0.00			0.00			0.00	3	5.81	5.81	9.55
113	5	40.88	0.01			0.00			0.00			0.00			0.00	12	41.56	41.56	100
125	80	1796.88	0.58			0.00			0.00	2	8.81	0.49	2	8.81	0.49	17	547.25	78.44	30.46
127	59	1638.94	0.53	13	342.44	20.89	11	74.19	4.53	4	1.25	0.08	16	390.50	23.83	29	544.75	531.31	33.24
199	16	91.94	0.03			0.00			0.00			0.00			0.00				0.00
Stream Systems																			
201	15	255.25	0.08			0.00	9	0.75	0.29			0.00	9	0.75	0.29	13	227.69	203.56	89.20
202	8	753.88	0.24			0.00			0.00	1	26.38	3.50	6	27.06	3.59	10	639.81	47.13	84.87
203	1	160.63	0.05			0.00			0.00			0.00			0.00	1	160.63	21.13	100.00
204	1	420.88	0.14			0.00			0.00			0.00			0.00	2	420.88	66.19	100.00
205	19	219.13	0.07			0.00	10	2.25	1.03			0.00	10	2.25	1.03	19	216.56	175.94	98.83
206	25	7069.44	2.29	1	20.88	0.30	5	73.69	1.04	7	58.75	0.83	47	156.19	2.21	52	726.94	387.25	10.28
207	10	1931.13	0.62			0.00	4	552.69	28.62	2	11.38	0.59	7	576.63	29.86	11	1255.88	689.38	65.03
208	10	1005.31	0.33			0.00	19	291.06	28.95	1	12.38	1.23	19	292.75	29.12	11	309.06	298.38	30.74
209	25	2215.38	0.72			0.00			0.00	1	5.06	0.23	1	5.06	0.23	4	1162.31	153.63	52.47
210	36	12107.44	3.91			0.00	10	244.69	2.02	6	52.94	0.44	33	285.06	2.35	33	2266.44	578.00	18.72
211	6	2214.63	0.72			0.00			0.00	14	130.63	5.90	97	140.69	6.35	7	2214.13	271.06	99.98
212	24	12799.94	4.14			0.00	1	21.38	0.17	1	17.63	0.14	2	39.00	0.30	7	12122.50	1029.69	94.71
213	6	4821.13	1.56			0.00	3	29.00	0.60			0.00	3	29.00	0.60	5	3327.50	508.63	69.02
214	8	605.63	0.20			0.00			0.00	2	7.38	1.22	7	7.81	1.29	8	161.75	80.81	26.71
215	16	1028.94	0.33			0.00			0.00	8	213.56	20.76	15	214.69	20.86	15	585.56	264.31	56.91
216	16	6690.00	2.16			0.00			0.00	20	409.94	6.13	108	418.88	6.26	122	627.94	463.25	9.39
217	108	128590.38	41.58			0.00	3	152.50	0.12	32	732.38	0.57	199	872.75	0.68	223	3638.19	1126.00	2.83
218	109	52729.31	17.05			0.00	3	11.25	0.02	11	24.06	0.05	51	72.75	0.14	63	787.38	133.56	1.49
219	16	23023.94	7.44			0.00	1	210.63	0.91	14	701.69	3.05	78	891.88	3.87	55	10134.19	2301.00	44.02
220	33	14962.69	4.84	1	4.56	0.03	8	1700.63	11.37	8	299.44	2.00	30	1731.81	11.57	32	7146.38	2345.06	47.76
223	9	1910.63	0.62			0.00	1	83.75	4.38			0.00	1	83.75	4.38	3	1563.31	141.13	81.82
224	7	48.63	0.02			0.00			0.00			0.00			0.00				0.00
225	16	2443.69	0.79	2	149.56	6.12	1	151.69	6.21	2	24.69	1.01	5	183.00	7.49	27	2141.25	530.50	87.62
229	1	54.00	0.02			0.00			0.00			0.00			0.00	1	54.00	1.31	100.00
230	5	270.44	0.09	1	16.06	5.94	1	110.81	40.98			0.00	2	126.88	46.91	18	269.75	188.88	99.75
232	2	253.75	0.08			0.00			0.00			0.00			0.00	2	253.75	16.81	100.00
234	2	428.00	0.14			0.00			0.00	1	65.88	15.39	1	65.88	15.39	2	428.00	113.81	100.00
237	3	742.75	0.24	1	33.56	4.52	4	507.19	68.29			0.00	4	507.19	68.29	5	742.63	630.00	99.98

System Integer	# of patches in 2FF	Total area (ha) in 2FF	% of total area in 2FF	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) in CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																			
Stream Systems continued																			
240	1	234.63	0.08			0.00			0.00			0.00			0.00	1	234.63	64.75	100.00
241	1	0.19	0.00			0.00			0.00			0.00			0.00				0.00
242	2	188.81	0.06			0.00			0.00			0.00			0.00	2	188.81	10.75	100.00
243	1	588.88	0.19			0.00	1	3.19	0.54			0.00	1	3.19	0.54	1	588.94	132.75	100.00
244	3	471.31	0.15			0.00	6	14.06	2.98			0.00	14	15.13	3.21	3	471.31	183.38	100.00
245	2	202.75	0.07			0.00			0.00			0.00			0.00	1	202.38	12.25	99.82
248	18	12500.88	4.04	1	1529.13	12.23	5	763.94	6.11	21	76.44	0.61	37	1726.19	13.81	11	4016.00	2351.13	32.13
250	1	0.06	0.00			0.00			0.00			0.00			0.00				0.00
252	3	648.50	0.21			0.00			0.00			0.00			0.00	3	648.19	116.50	99.95
253	10	6382.31	2.06			0.00			0.00			0.00			0.00	3	1388.19	232.75	21.75
Lake Systems																			
325	50	37.69	0.01			0.00	1	0.06	0.17	1	0.06	0.17	2	0.13	0.33	2	0.13	0.13	0.33
326	25	37.56	0.01			0.00	5	8.88	23.63			0.00	5	8.88	23.63	7	8.88	8.88	23.63
328	92	50.19	0.02	1	0.31	0.62	1	0.25	0.50	1	0.44	0.87	1	0.50	1.00	3	2.25	2.25	4.48
329	91	50.38	0.02			0.00	2	0.56	1.12			0.00	9	1.38	2.73	18	3.38	3.31	6.70
330	5	0.63	0.00			0.00			0.00			0.00	1	0.06	10.00	1	0.06	0.06	10.00
331	31	12.25	0.00			0.00			0.00			0.00			0.00				0.00
332	3	0.94	0.00			0.00			0.00			0.00			0.00				0.00
333	55	103.94	0.03			0.00	2	1.63	1.56	6	80.63	77.57	10	82.44	79.31	18	83.31	83.31	80.16
334	410	108.75	0.04			0.00	4	2.31	2.13			0.00	4	2.31	2.13	9	16.25	16.19	14.94
336	87	18.81	0.01			0.00	3	0.25	1.33			0.00	3	0.25	1.33	3	0.25	0.25	1.33
Wetland Systems																			
401	40	76.31	0.02			0.00	9	14.00	18.35	11	21.19	27.76	29	50.38	66.01	35	50.88	50.88	66.67
402	8	33.19	0.01			0.00			0.00			0.00	6	27.13	81.73	8	27.13	27.13	81.73
404	1	133.56	0.04			0.00	1	130.81	97.94	2	3.06	2.29	1	133.38	99.86	2	133.56	133.56	100.00
405	226	700.19	0.23			0.00	26	57.88	8.27	28	91.44	13.06	75	248.88	35.54	87	307.75	307.75	43.95
406	104	2493.50	0.81			0.00	26	108.94	4.37	34	771.25	30.93	80	2194.06	87.99	85	2231.31	2231.31	89.49
Non-Target Ecological Systems																			
Coastal Systems																			
121	8	16.38	0.01			0.00			0.00	1	0.06	0.38	1	0.06	0.38	1	0.06	0.06	0.38
122	3	25.44	0.01			0.00			0.00			0.00			0.00				0.00
124	17	35.81	0.01			0.00			0.00			0.00			0.00				0.00
Unclassified Ecological Systems																			
2	6	155.94	0.05			0.00			0.00			0.00	3	2.50	1.60				0.00
5	31	2.25	0.00			0.00			0.00			0.00			0.00				0.00
6	208	209.69	0.07			0.00			0.00	3	2.50	1.19			0.00	4	2.50	2.50	1.19

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Upper Grand

Tertiary Watershed 2GA

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area:	475,612 hectares (1,175,237 acres)
Land Ownership:	Public Land ~ 2% Private Land ~ 98%
Planning Authority:	42% Wellington County 29% Waterloo Region 15% Dufferin County 5% Perth County 4% Oxford County 3% Brant County 1% Halton Region 1% Grey County

General Description:

Tertiary watershed 2GA drains into northern Lake Erie, but it does not contain Great Lakes coastal area. There are approximately 437,458 hectares of stream systems, 1,760 hectares of lakes and 35,925 hectares of wetlands. This inland watershed contains the Nith, Conestogo and Grand Rivers. The remaining natural cover is dominated by dense deciduous forest, and also includes mixed forest, deciduous swamp and coniferous swamp.

Land Use:

Agriculture is the dominant land use in this watershed. A few quarries are present in the area. Large areas of developed land around the major urban centres are present including the cities of Guelph, Cambridge and Kitchener-Waterloo. A number of smaller rural communities are also present.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2GA is 40,881 hectares, constituting approximately 8.6% of the watershed's total area. A portion of these lands (16,829 ha), is Conservation Authority lands and the majority of the remaining areas are provincially significant



wetlands. There are approximately 12,779 hectares of protected stream systems, 905 hectares of protected lakes and 26,881 hectares of protected wetlands.

Species and Vegetation Community Targets:

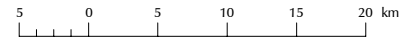
Sixteen species targets are known from watershed 2GA. Schweinitz's Sedge (*Carex schweinitzii*), Ram's-head Lady's-slipper (*Cypripedium arietinum*), Slender Spike-rush (*Eleocharis nitida*) and Silver Shiner (*Notropis photogenis*) are primary species targets. There are known occurrences for 11 of the 16 species targets in conservation lands. There are no documented occurrences of rare vegetation communities in this watershed.

Conservation Blueprint:

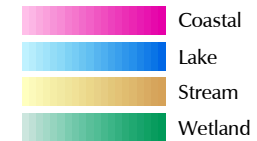
The Conservation Blueprint includes 59,645 hectares of stream systems, 1,099 hectares of lakes, and 27,215 hectares of wetlands. The Conservation Blueprint also includes occurrences of the primary targets of Schweinitz's Sedge (1), Ram's-head Lady's-slipper (1), Slender Spike-rush (1) and Silver Shiner (3).

Great Lakes Conservation Blueprint for Biodiversity

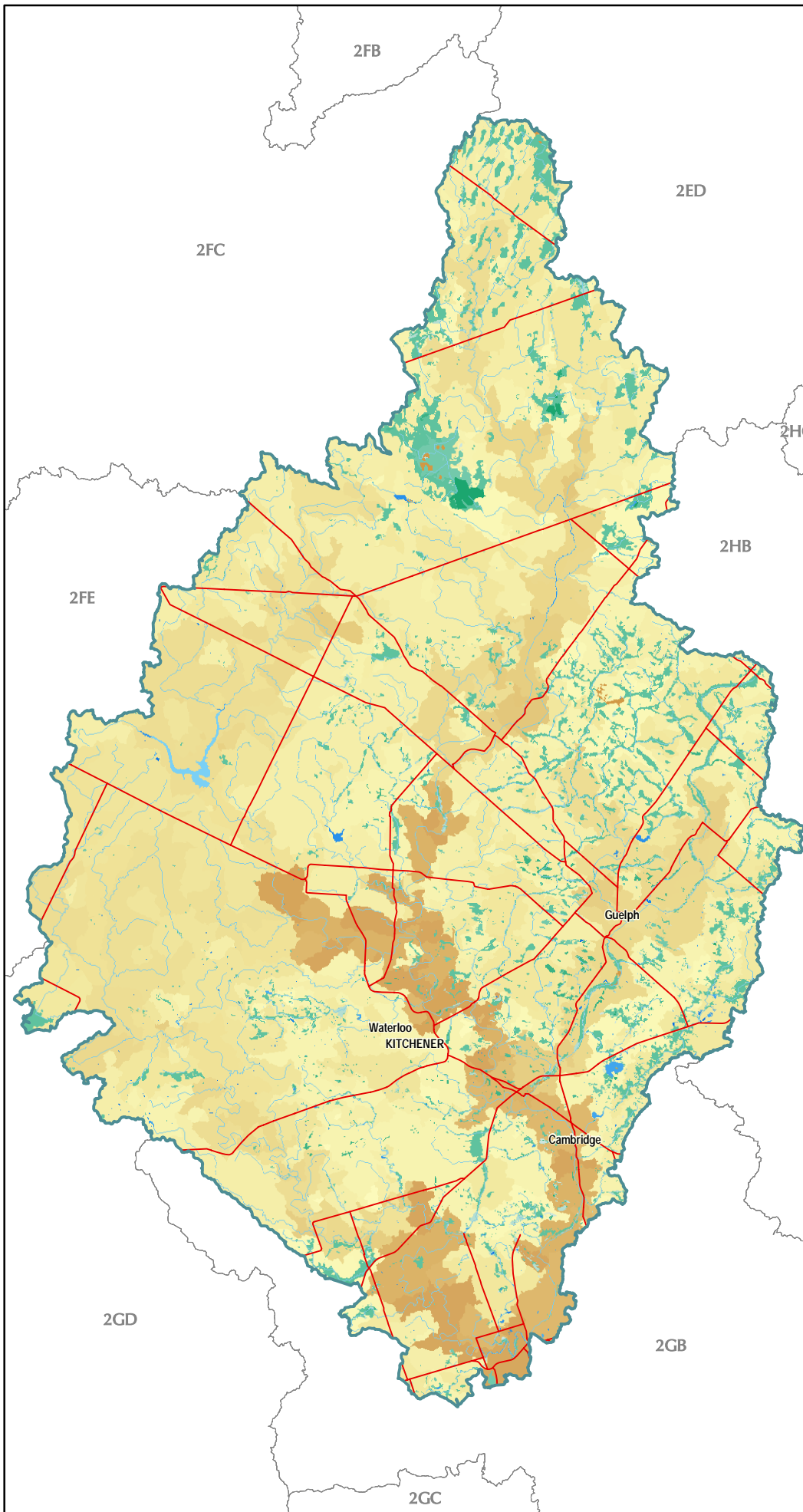
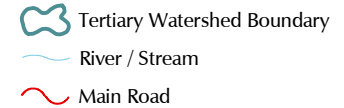
UPPER GRAND WATERSHED 2GA



Aquatic Ecological Systems



Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

UPPER GRAND WATERSHED 2GA

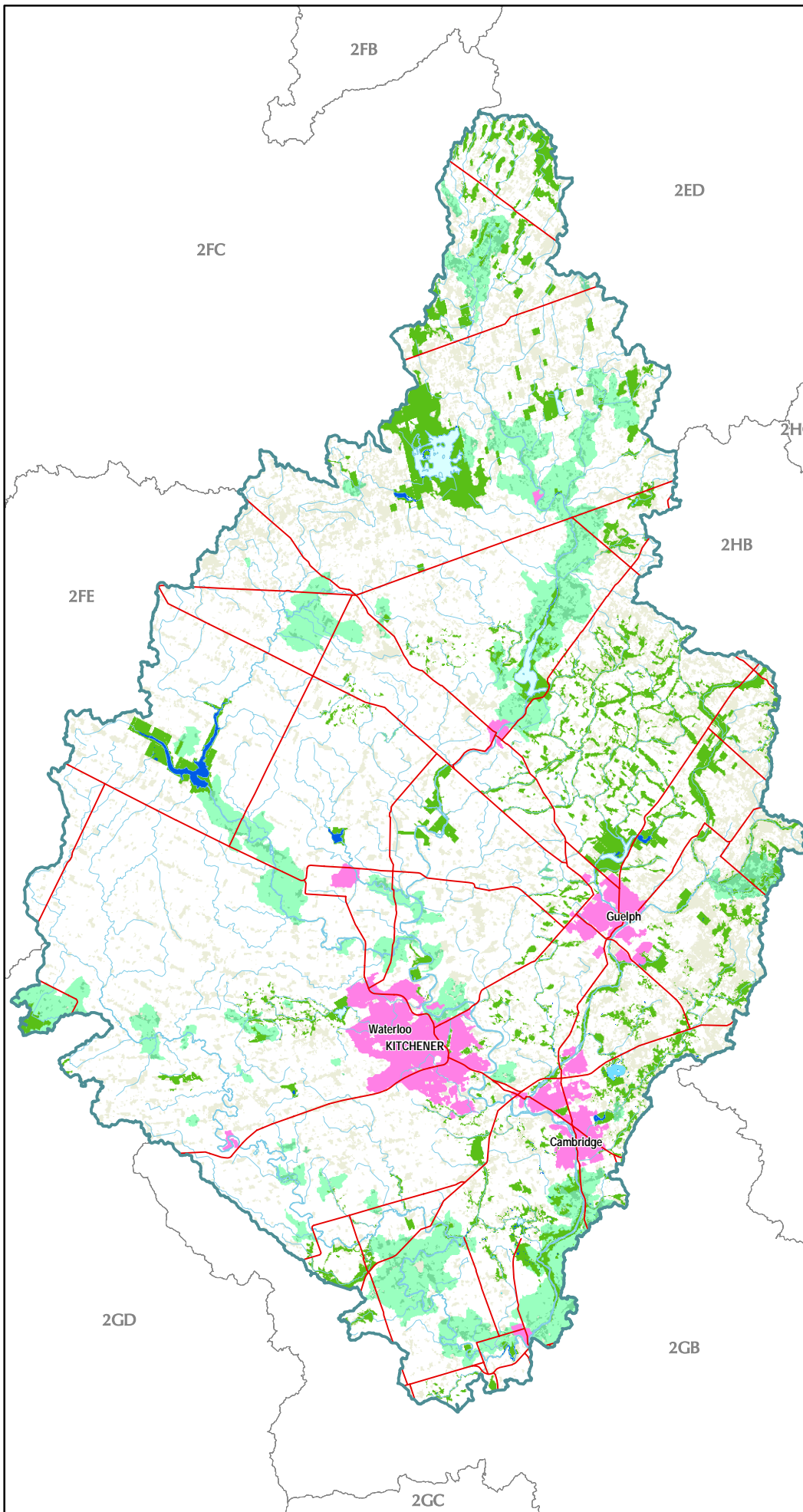


Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Documented extant significant species information for tertiary watershed 2GA

# of pops in 2GA	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in PS LS-ANSIs	% of pops in PS LS-ANSIs	# of pops in CAs	% of pops in CAs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species																
4	<i>Ambystoma jeffersonianum</i>	Jefferson Salamander	G4	S2	THR	THR	SAR	1	25	0	0	2	50	2	50	secondary
2	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	0	0	0	1	50	1	50	secondary
1	<i>Rallus elegans</i>	King Rail	G4G5	S2B,SZN	END	END-R	SAR	0	0	0	0	1	100	1	100	secondary
1	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	1	100	1	100	1	100	1	100	secondary
4	<i>Seiurus motacilla</i>	Louisiana Waterthrush	G5	S3B,SZN	SC	SC	SAR	2	50	1	25	2	50	2	50	secondary
1	<i>Clinostomus elongatus</i>	Redside Dace	G4	S3	SC	THR	SAR	0	0	0	0	0	0	0	0	secondary
3	<i>Notropis photogenis</i>	Silver Shiner	G5	S2S3	SC	SC	SAR	0	0	0	0	0	0	3	100	3
5	<i>Etheostoma blennioides</i>	Greenside Darter	G5	S4	SC	SC	SAR	0	0	0	0	3	60	3	60	secondary
1	<i>Clemmys guttata</i>	Spotted Turtle	G5	S3	END	SC	SAR	1	100	1	100	1	100	1	100	secondary
1	<i>Graptemys geographica</i>	Northern Map Turtle	G5	S3	SC	SC	SAR	0	0	0	0	0	0	0	0	secondary
1	<i>Regina septemvittata</i>	Queen Snake	G5	S2	THR	THR	SAR	0	0	0	0	0	0	0	0	secondary
11	<i>Lampsilis fasciola</i>	Wavy-rayed Lampmussel	G4	S1	END	END	SAR	1	9	1	9	2	18	4	36	secondary
4	<i>Arisaema dracontium</i>	Green Dragon	G5	S3	SC	SC	SAR	0	0	1	25	1	25	1	25	secondary
1	<i>Carex schweinitzii</i>	Schweinitz's Sedge	G3	S3			GRank	1	100	0	0	1	100	1	100	2
1	<i>Eleocharis nitida</i>	Slender Spike-rush	G3G4	S2			GRank	0	0	0	0	0	0	1	100	2
1	<i>Cypripedium arietinum</i>	Ram's-head Lady's-slipper	G3	S3			GRank	0	0	0	0	1	100	1	100	2

Ecological systems summary for tertiary watershed 2GA

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stream Systems	437458.06	91.98	12779.31	2.92	59645.25	13.63	21406.25	4.89
Lake Systems	1760.06	0.37	905.25	51.43	1099.13	62.45	1099.13	62.45
Wetland Systems	35925.63	7.55	26881.25	74.82	27215.31	75.75	27215.31	75.75
Tertiary watershed	475612.56	100.00	40881.69	8.60	88275.63	18.56	50036.63	10.52

Ecological systems details for tertiary watershed 2GA

System Integer	# of patches in 2GA	Total area (ha) in 2GA	% of total area in 2GA	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) system in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																
Stream Systems																
201	4	91.56	0.02			0.00			0.00	3	0.63	0.68	3	91.50	15.63	99.93
202	10	527.44	0.11			0.00			0.00	4	0.38	0.07	4	255.38	43.94	48.42
203	138	15026.06	3.16	41	34.25	0.23	50	128.88	0.86	1220	270.25	1.80	1474	380.63	340.63	2.53
204	1	0.06	0.00			0.00			0.00			0.00				0.00
205	74	5733.31	1.21	20	7.63	0.13	25	211.25	3.68	551	272.75	4.76	655	273.50	273.50	4.77
206	177	51531.56	10.83	69	153.63	0.30	96	744.69	1.45	2179	1101.63	2.14	2699	1424.81	1202.25	2.76
207	5	176.19	0.04	1	0.44	0.25	1	0.44	0.25	1	0.44	0.25	3	136.44	11.44	77.44
208	100	13505.63	2.84	6	6.31	0.05	29	260.31	1.93	627	337.13	2.50	763	575.63	432.38	4.26
210	212	99170.50	20.85	24	161.44	0.16	54	552.44	0.56	2369	928.06	0.94	2957	928.75	928.75	0.94
211	81	13488.63	2.84	133	57.31	0.42	65	1515.50	11.24	356	1548.56	11.48	434	1548.75	1548.75	11.48
212	3	229.88	0.05			0.00			0.00			0.00	5	229.88	1.56	100.00
213	6	1146.88	0.24			0.00	8	25.25	2.20	51	30.00	2.62	25	1054.69	224.06	91.96
214	7	2865.88	0.60			0.00	10	3.38	0.12	94	11.31	0.39	6	2865.81	325.75	100.00
215	105	14643.63	3.08	17	49.06	0.34	16	119.25	0.81	973	280.81	1.92	1112	1010.25	793.38	6.90
216	126	36811.50	7.74	45	94.94	0.26	51	586.56	1.59	966	751.38	2.04	1214	760.69	760.44	2.07
217	48	29425.56	6.19	1	39.19	0.13	9	108.06	0.37	222	171.31	0.58	108	1679.81	692.44	5.71
218	28	4579.88	0.96			0.00	2	90.19	1.97	8	90.75	1.98	10	202.88	95.25	4.43
219	17	18525.38	3.90			0.00	7	96.63	0.52	18	98.00	0.53	26	2910.38	490.13	15.71
220	13	13092.56	2.75			0.00	5	38.25	0.29	5	38.25	0.29	4	833.50	124.69	6.37
221	1	121.69	0.03			0.00			0.00			0.00	1	121.69	32.56	100.00
222	46	30089.13	6.33	4	11.69	0.04	26	2463.56	8.19	413	2518.31	8.37	465	5654.69	3426.94	18.79
223	3	206.25	0.04			0.00			0.00			0.00	3	206.25	19.44	100.00
224	42	10757.63	2.26	5	114.31	1.06	9	213.94	1.99	356	368.44	3.42	446	373.69	372.69	3.47
225	51	17102.00	3.60	3	40.25	0.24	11	402.50	2.35	202	465.50	2.72	225	2721.75	826.19	15.91
226	10	7325.94	1.54			0.00	6	138.75	1.89	6	138.75	1.89	5	7312.81	1637.00	99.82
227	1	58.81	0.01			0.00			0.00			0.00	1	58.81	14.00	100.00
229	3	46.25	0.01			0.00	1	2.44	5.27	1	2.44	5.27	1	2.44	2.44	5.27
230	69	5109.38	1.07	5	85.25	1.67	28	102.38	2.00	197	160.00	3.13	255	633.63	215.81	12.40

System Integer	# of patches in 2GA	Total area (ha) in 2GA	% of total area in 2GA	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) system in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Stream Systems continued																
231	18	3011.75	0.63			0.00	7	1035.25	34.37	62	1041.50	34.58	45	2717.81	1389.81	90.24
233	4	1454.00	0.31			0.00			0.00	42	4.94	0.34	4	1392.19	206.56	95.75
235	4	1624.56	0.34			0.00	3	37.19	2.29	16	38.25	2.35	5	1619.00	235.19	99.66
236	1	205.19	0.04			0.00	4	46.63	22.72	4	46.63	22.72	1	205.19	86.00	100.00
238	2	467.38	0.10	6	7.38	1.58			0.00	13	9.06	1.94	2	467.44	111.94	100.00
239	4	15.88	0.00	3	5.63	35.43			0.00	6	5.94	37.40	6	5.94	5.94	37.40
243	22	10050.25	2.11	11	189.25	1.88	31	256.56	2.55	179	418.00	4.16	187	4425.44	1064.75	44.03
244	1	17.56	0.00			0.00	1	15.94	90.75	1	16.00	91.10	2	16.00	16.00	91.10
246	26	13568.44	2.85	31	504.31	3.72	45	475.50	3.50	262	1017.56	7.50	114	7964.13	2125.00	58.70
248	1	680.50	0.14			0.00			0.00			0.00	2	680.50	52.56	100.00
251	12	3067.38	0.64			0.00	13	66.44	2.17	27	68.06	2.22	38	1266.88	233.56	41.30
252	28	8666.94	1.82	8	195.75	2.26	18	368.25	4.25	71	527.38	6.08	92	1506.63	690.44	17.38
253	2	245.75	0.05			0.00			0.00			0.00	2	245.75	60.69	100.00
254	2	2882.44	0.61			0.00			0.00			0.00	3	2882.44	274.88	100.00
Lake Systems																
302	26	4.31	0.00	26	4.13	95.65	27	4.19	97.10	26	4.31	100.00	38	4.31	4.31	100.00
315	3	581.63	0.12			0.00	1	580.19	99.75	1	580.19	99.75	3	581.19	581.19	99.92
325	108	46.31	0.01	5	0.63	1.35	14	2.50	5.40	45	9.81	21.19	51	9.81	9.81	21.19
326	148	347.50	0.07			0.00	34	45.44	13.08	72	50.69	14.59	83	219.88	219.88	63.27
327	95	35.56	0.01	2	0.38	1.05	9	4.88	13.71	19	5.94	16.70	25	5.94	5.94	16.70
328	209	96.69	0.02	2	6.31	6.53	13	2.81	2.91	38	11.38	11.76	44	12.50	12.50	12.93
329	14	4.13	0.00			0.00			0.00			0.00				0.00
330	174	328.94	0.07	8	1.13	0.34	24	220.31	66.98	35	221.25	67.26	60	222.00	222.00	67.49
331	136	70.00	0.01			0.00	5	2.06	2.95	29	3.94	5.63	34	8.75	8.75	12.50
332	242	103.63	0.02			0.00	4	0.50	0.48	8	0.88	0.84	12	9.25	9.25	8.93
333	38	17.13	0.00			0.00	5	4.00	23.36	5	4.00	23.36	9	4.00	4.00	23.36
334	94	29.69	0.01			0.00	3	7.75	26.11	3	7.75	26.11	3	7.75	7.75	26.11
335	131	81.38	0.02	4	0.31	0.38	7	4.19	5.15	20	5.06	6.22	20	13.69	13.69	16.82
336	50	13.19	0.00			0.00			0.00	1	0.06	0.47	1	0.06	0.06	0.47

System Integer	# of patches in 2GA	Total area (ha) in 2GA	% of total area in 2GA	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) system in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Wetland Systems																
401	375	520.25	0.11	24	48.69	9.36	49	71.50	13.74	309	406.81	78.20	363	406.81	406.81	78.20
402	505	1841.63	0.39	21	58.50	3.18	34	195.13	10.60	432	1404.88	76.28	578	1480.88	1480.88	80.41
404	1	3.44	0.00	1	3.44	100.00	1	3.44	100.00	1	3.44	100.00	1	3.44	3.44	100.00
405	1133	4087.94	0.86	40	1267.44	31.00	91	1409.31	34.47	637	2792.38	68.31	770	2797.94	2797.94	68.44
406	1235	27227.94	5.72	30	2593.38	9.52	138	3344.38	12.28	964	21411.25	78.64	1421	21489.31	21489.31	78.92
407	193	365.44	0.08	8	26.13	7.15	7	25.50	6.98	27	61.00	16.69	30	70.81	70.81	19.38
408	194	1184.13	0.25	8	48.88	4.13	14	86.19	7.28	23	133.25	11.25	35	296.25	296.25	25.02
409	16	83.38	0.02	6	45.06	54.05	4	38.94	46.70	15	60.00	71.96	16	60.56	60.56	72.64
410	11	611.50	0.13	2	483.75	79.11	5	512.19	83.76	10	608.25	99.47	13	609.31	609.31	99.64
Non-Target Ecological Systems																
Unclassified Ecological Systems																
2	4	110.94	0.02			0.00			0.00	11	0.94	0.85	11	0.94	0.94	0.85
6	729	468.81	0.10	7	115.25	24.58	45	157.94	33.69	76	315.88	67.38	89	315.94	315.94	67.39

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Lower Grand

Tertiary Watershed 2GB

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area: 203,872 hectares (503,767 acres)

Land Ownership: Public Land ~ 1%
Private Land ~ 79%
First Nations Lands ~ 20%

Planning Authority: 41% Brant County
30% Haldimand County
15% Hamilton-Wentworth
11% Oxford County
2% Waterloo Region
1% Perth County

General Description:

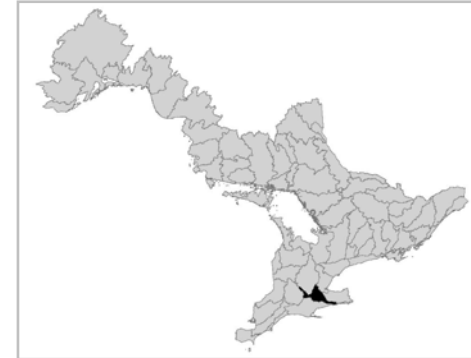
Tertiary watershed 2GB drains into Lake Erie and has a small section of Lake Erie shoreline. There are approximately 90 hectares of coastal areas, 191,546 hectares of stream systems, 421 hectares of lakes and 10,998 hectares of wetlands. Watershed 2GB contains much of the Grand River, including its outlet into Lake Erie at Port Maitland. The remaining natural cover is dominated by dense deciduous forest, followed by mixed forest, sparse deciduous forest, and a few deciduous swamps.

Land Use:

Agriculture is the dominant land use in the watershed; cropland covers the majority of the area. A small amount of developed land is present around the region's settlements, which include Brantford, Brant and Haldimand. A few quarries are scattered throughout.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2GB is 12,411 hectares, constituting approximately 6% of the watershed's total area. The majority of these lands are Conservation Authority areas, provincially significant wetlands or provincially significant life science



ANSIs. There are 2,497 hectares of protected stream systems, 27 hectares of protected lakes and 9,124 hectares of protected wetlands, but not protected coastal areas.

Species and Vegetation Community Targets:

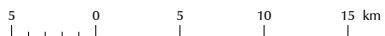
Eighteen species targets are known to occur in watershed 2GB. The primary targets are Eastern Sand Darter (*Ammocrypta pellucida*), Schweinitz's Sedge (*Carex schweinitzii*), Ram's-head Lady's-slipper (*Cypripedium arietinum*), River Redhorse (*Moxostoma carinatum*) and Silver Shiner (*Notropis photogenis*). The remaining 13 species targets in watershed 2GB are secondary targets. There is a known occurrence of River Redhorse in a conservation authority area. There are no documented occurrences of rare vegetation communities in this watershed.

Conservation Blueprint:

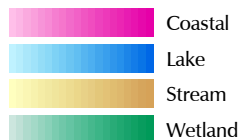
The Conservation Blueprint includes 78 hectares of coastal areas, 41,079 hectares of stream systems, 71 hectares of lakes and 9,310 hectares of wetlands. The Conservation Blueprint also includes all of the extant occurrences of primary species targets in the watershed.

Great Lakes Conservation Blueprint for Biodiversity

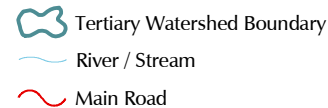
LOWER GRAND WATERSHED 2GB



Aquatic Ecological Systems



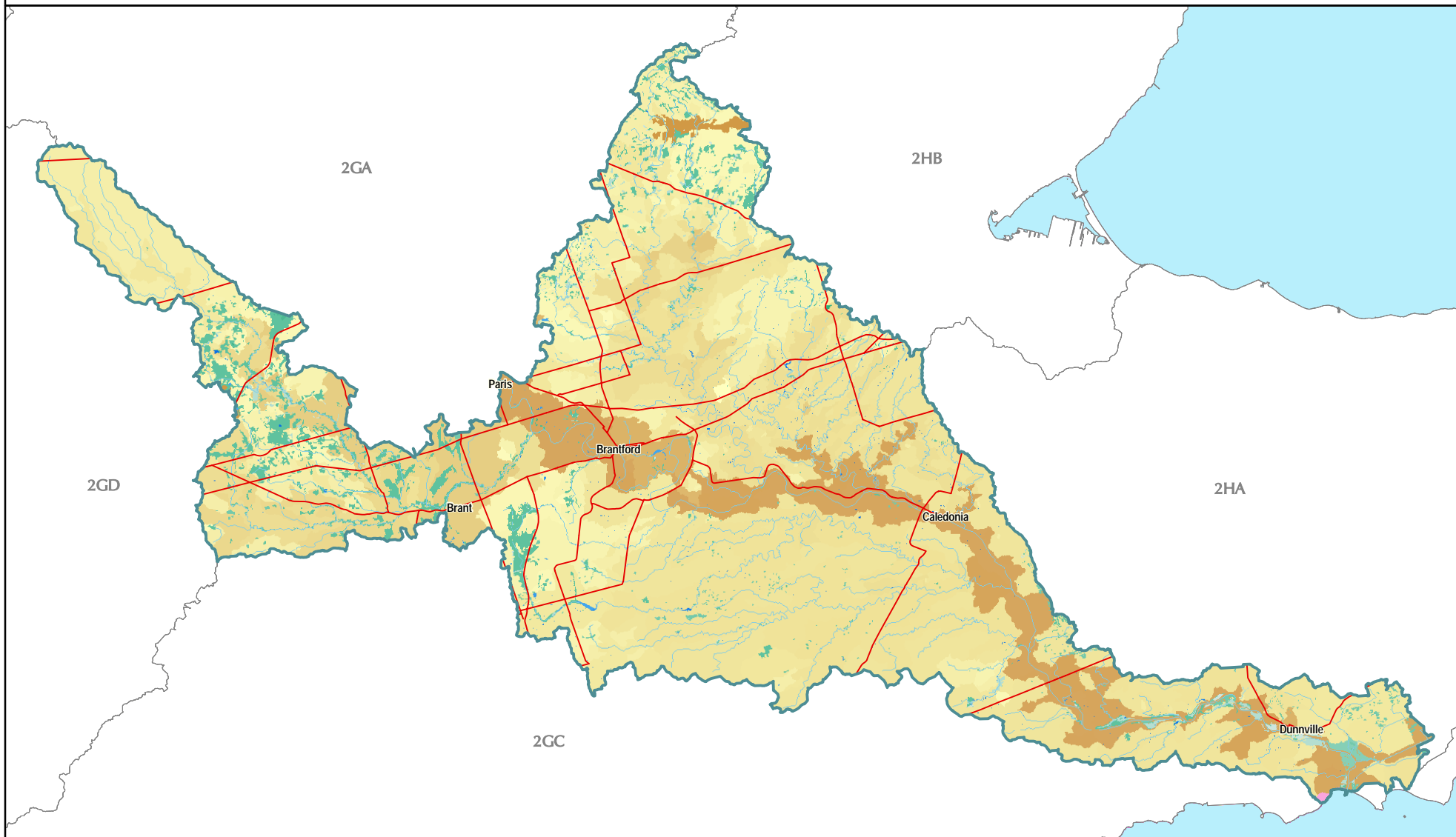
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

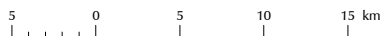
For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

LOWER GRAND WATERSHED 2GB



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

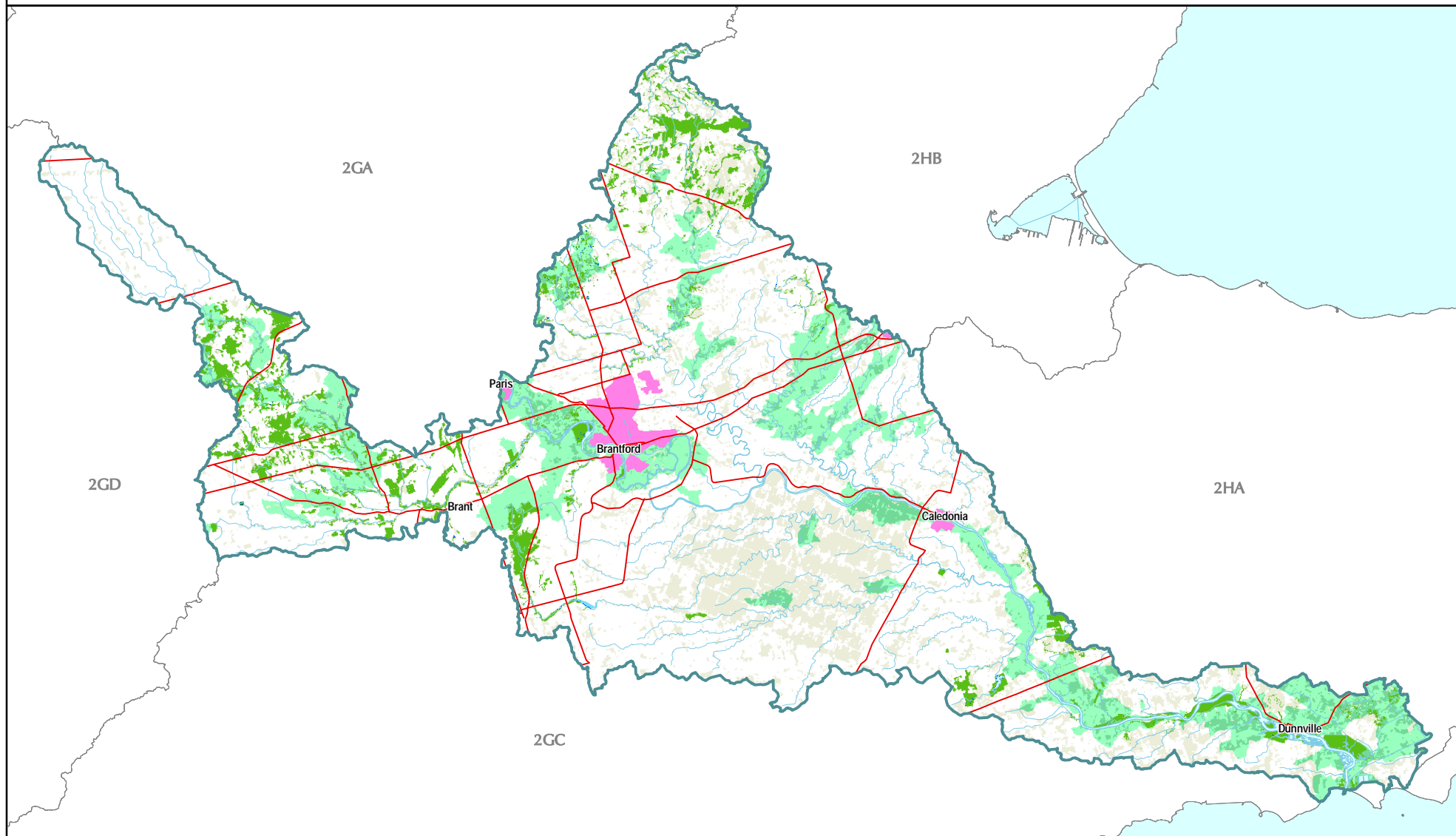
- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Documented extant significant species information for tertiary watershed 2GB

# of pops in 2GB	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in PS LS-ANSIs	% of pops in PS LS-ANSIs	# of pops in CAs	% of pops in CAs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species																
9	<i>Ambystoma jeffersonianum</i>	Jefferson Salamander	G4	S2	THR	THR	SAR	0	0	1	11	1	11	4	44	secondary
1	<i>Bufo fowleri</i>	Fowler's Toad	G5	S2	THR	THR	SAR	0	0	0	0	0	0	1	100	secondary
1	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	0	0	0	1	100	1	100	secondary
1	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S4B,SZN	NAR	END-R	SAR	0	0	1	100	1	100	1	100	secondary
1	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	0	0	0	0	0	1	100	secondary
2	<i>Seiurus motacilla</i>	Louisiana Waterthrush	G5	S3B,SZN	SC	SC	SAR	0	0	0	0	0	0	0	0	secondary
2	<i>Notropis photogenis</i>	Silver Shiner	G5	S2S3	SC	SC	SAR	0	0	0	0	0	0	2	100	3
2	<i>Moxostoma carinatum</i>	River Redhorse	G4	S2	SC	SC	SAR	0	0	1	50	1	50	2	100	3
1	<i>Moxostoma duquesnei</i>	Black Redhorse	G5	S2	THR	THR	SAR	0	0	0	0	0	0	0	0	secondary
1	<i>Ammocrypta pellucida</i>	Eastern Sand Darter	G3	S2	THR	THR	GRank SAR	0	0	0	0	0	0	1	100	2
2	<i>Etheostoma blennioides</i>	Greenside Darter	G5	S4	SC	SC	SAR	0	0	0	0	0	0	2	100	secondary
83	<i>Graptemys geographica</i>	Northern Map Turtle	G5	S3	SC	SC	SAR	1	1	3	4	4	5	51	61	secondary
1	<i>Apalone spinifera</i>	Spiny Softshell	G5	S3	THR	THR	SAR	0	0	0	0	0	0	1	100	secondary
2	<i>Regina septemvittata</i>	Queen Snake	G5	S2	THR	THR	SAR	0	0	1	50	1	50	2	100	secondary
2	<i>Lampsilis fasciola</i>	Wavy-rayed Lampmussel	G4	S1	END	END	SAR	0	0	0	0	0	0	2	100	secondary
2	<i>Arisaema dracontium</i>	Green Dragon	G5	S3	SC	SC	SAR	0	0	0	0	0	0	0	0	secondary
1	<i>Carex schweinitzii</i>	Schweinitz's Sedge	G3	S3			GRank	0	0	0	0	0	0	1	100	2
1	<i>Cypripedium arietinum</i>	Ram's-head Lady's-slipper	G3	S3			GRank	0	0	0	0	0	0	1	100	2

Ecological systems summary for tertiary watershed 2GB

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	90.50	0.04	0.00	0.00	78.31	86.53	14.25	15.75
Stream Systems	191546.25	93.95	2497.31	1.30	41079.50	21.45	11956.13	6.24
Lake Systems	421.94	0.21	27.94	6.62	71.00	16.83	71.00	16.83
Wetland Systems	10998.06	5.39	9124.19	82.96	9310.06	84.65	9310.06	84.65
Tertiary watershed	203872.19	100.00	12411.75	6.09	51301.50	25.16	22114.19	10.85

Ecological systems details for tertiary watershed 2GB

System Integer	# of patches in 2GB	Total area (ha) in 2GB	% of total area in 2GB	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) in CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																			
Coastal Systems																			
101	2	3.13	0.00			0.00			0.00			0.00			0.00	2	3.19	3.19	100.00
104	2	2.25	0.00			0.00			0.00			0.00			0.00	2	2.25	2.25	100.00
108	2	6.31	0.00			0.00			0.00			0.00			0.00	2	6.31	6.31	100.00
125	8	76.50	0.04			0.00			0.00			0.00			0.00	3	66.56	2.50	87.01
199	2	0.13	0.00			0.00			0.00			0.00			0.00				0.00
Stream Systems																			
201	3	74.94	0.04			0.00			0.00	2	4.81	6.42	8	5.31	7.09	5	74.94	10.56	100.00
202	8	224.69	0.11			0.00			0.00	1	17.00	7.57	9	17.88	7.96	7	67.88	21.13	30.21
203	102	5623.88	2.76			0.00	73	42.13	0.75	7	34.81	0.62	764	150.38	2.67	835	296.88	265.81	5.28
204	4	115.56	0.06			0.00			0.00			0.00	43	4.19	3.62	12	90.13	36.38	77.99
205	57	3016.19	1.48			0.00	1	2.81	0.09	7	8.75	0.29	291	47.75	1.58	247	1969.63	167.31	65.30
206	110	13653.44	6.70			0.00	3	1.56	0.01	3	1.31	0.01	622	73.56	0.54	730	359.63	114.94	2.63
207	5	206.88	0.10			0.00			0.00	1	12.81	6.19	1	12.81	6.19	3	200.81	30.94	97.07
208	59	4044.06	1.98			0.00	21	5.75	0.14	5	25.63	0.63	713	113.44	2.81	564	1179.50	471.44	29.17
210	69	17214.06	8.44			0.00	7	68.63	0.40	6	40.31	0.23	462	161.06	0.94	506	540.19	209.13	3.14
211	56	890.00	0.44			0.00	22	11.06	1.24			0.00	155	25.13	2.82	172	33.44	33.44	3.76
212	26	428.75	0.21			0.00			0.00			0.00			0.00	4	36.06	4.50	8.41
213	30	1125.06	0.55			0.00	1	0.06	0.01	1	5.94	0.53	43	10.88	0.97	55	12.81	12.56	1.14
214	8	360.13	0.18			0.00			0.00			0.00	32	3.94	1.09	7	276.75	104.69	76.85
215	120	8697.63	4.27			0.00	11	8.00	0.09	6	87.00	1.00	342	134.13	1.54	224	3218.94	1241.06	37.01
216	87	9408.56	4.61			0.00	18	22.25	0.24	12	68.56	0.73	314	127.50	1.36	342	876.63	345.88	9.32
217	87	36331.31	17.82			0.00	37	282.63	0.78	5	23.44	0.06	302	342.06	0.94	381	1400.13	716.19	3.85
218	72	21291.13	10.44			0.00	6	4.69	0.02	4	125.25	0.59	264	163.69	0.77	324	385.44	306.75	1.81
219	23	11792.56	5.78			0.00	2	0.13	0.00	4	30.13	0.26	94	41.44	0.35	111	3468.38	678.75	29.41
220	45	7745.94	3.80			0.00			0.00	2	17.25	0.22	58	24.44	0.32	79	1957.63	515.00	25.27
221	5	790.31	0.39			0.00			0.00			0.00	92	13.50	1.71	3	789.63	275.00	99.91
222	19	8119.63	3.98	1	10.06	0.12	6	3.94	0.05	5	31.38	0.39	291	77.69	0.96	196	1735.75	280.06	21.38
223	2	3.06	0.00			0.00			0.00			0.00			0.00				0.00
224	54	3512.56	1.72			0.00	6	7.13	0.20	13	53.44	1.52	346	90.50	2.58	355	410.19	134.75	11.68
225	13	4103.56	2.01			0.00			0.00	1	1.75	0.04	54	6.69	0.16	34	1574.56	209.00	38.37
226	2	2.31	0.00			0.00			0.00			0.00			0.00				0.00
227	4	646.13	0.32			0.00			0.00			0.00	4	0.56	0.09	3	646.06	53.19	99.99
228	1	6.63	0.00			0.00			0.00			0.00			0.00				0.00
230	25	6142.31	3.01			0.00			0.00	2	32.94	0.54	479	82.06	1.34	334	1826.94	284.00	29.74
231	14	490.38	0.24			0.00			0.00	3	1.50	0.31	88	21.00	4.28	73	143.81	40.50	29.33
232	5	40.56	0.02			0.00			0.00	3	1.06	2.62	3	1.06	2.62	3	1.06	1.06	2.62
233	1	25.50	0.01			0.00			0.00			0.00			0.00				0.00
235	10	363.25	0.18			0.00			0.00			0.00	34	3.50	0.96	13	306.44	36.19	84.36
238	6	0.38	0.00			0.00			0.00			0.00			0.00	5	0.31	0.25	83.33

System Integer	# of patches in 2GB	Total area (ha) in 2GB	% of total area in 2GB	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) in CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																			
Stream Systems continued																			
243	47	206.06	0.10			0.00			0.00	2	0.25	0.12	8	0.88	0.42	58	205.94	26.81	99.94
246	19	2429.63	1.19			0.00	1	4.19	0.17			0.00	13	5.63	0.23	19	2069.38	239.44	85.17
249	1	0.25	0.00			0.00			0.00			0.00			0.00				0.00
251	48	1717.44	0.84			0.00			0.00	7	41.44	2.41	73	50.44	2.94	15	1599.75	704.94	93.15
252	26	11946.75	5.86			0.00	27	290.88	2.43	8	185.81	1.56	218	501.56	4.20	50	10364.19	3208.88	86.75
253	31	2639.50	1.29			0.00	8	8.75	0.33	3	38.75	1.47	42	51.94	1.97	37	1097.94	457.38	41.60
254	13	5960.75	2.92			0.00	6	91.94	1.54	4	37.75	0.63	26	130.63	2.19	12	1861.69	718.13	31.23
Lake Systems																			
325	40	11.88	0.01			0.00			0.00	1	0.13	1.05	6	0.50	4.21	6	0.50	0.50	4.21
326	114	94.50	0.05			0.00			0.00	2	1.63	1.72	64	7.69	8.13	66	42.31	42.31	44.78
327	21	4.06	0.00			0.00			0.00			0.00	14	1.31	32.31	16	1.31	1.31	32.31
328	188	54.31	0.03			0.00			0.00	5	1.13	2.07	19	5.38	9.90	21	6.88	6.88	12.66
329	62	17.00	0.01			0.00			0.00			0.00			0.00				0.00
330	53	15.56	0.01			0.00			0.00			0.00	25	2.25	14.46	31	2.25	2.25	14.46
331	104	22.06	0.01			0.00			0.00			0.00	9	1.50	6.80	9	1.50	1.50	6.80
332	48	12.69	0.01			0.00	1	0.06	0.49			0.00	11	2.88	22.66	11	2.88	2.88	22.66
333	132	79.81	0.04			0.00	7	1.56	1.96	15	1.94	2.43	30	4.19	5.25	35	6.50	6.50	8.14
334	464	53.81	0.03			0.00			0.00	1	0.88	1.63	4	1.13	2.09	6	5.75	5.75	10.69
335	33	19.38	0.01			0.00			0.00			0.00	11	0.88	4.52	11	0.88	0.88	4.52
336	232	36.88	0.02			0.00			0.00			0.00	4	0.25	0.68	4	0.25	0.25	0.68
Wetland Systems																			
401	169	306.38	0.15			0.00	16	76.94	25.11	6	10.81	3.53	161	265.75	86.74	188	267.44	267.44	87.29
402	279	1238.81	0.61			0.00	15	126.31	10.20	5	83.00	6.70	274	1055.38	85.19	351	1098.25	1098.25	88.65
404	2	345.88	0.17			0.00			0.00	2	170.75	49.37	8	283.81	82.06	4	345.88	345.88	100.00
405	615	1333.81	0.65			0.00	39	123.56	9.26	17	26.75	2.01	396	808.06	60.58	494	809.44	809.44	60.69
406	737	7731.06	3.79	1	0.06	0.00	41	172.88	2.24	27	155.31	2.01	692	6670.94	86.29	950	6748.81	6748.94	87.29
407	11	28.50	0.01			0.00			0.00	3	2.75	9.65	11	26.94	94.52	14	26.94	26.94	94.52
408	1	2.44	0.00			0.00			0.00			0.00	1	2.13	87.18	1	2.13	2.13	87.18
409	2	11.19	0.01			0.00	2	11.19	100.00	1	0.94	8.38	2	11.19	100.00	2	11.19	11.19	100.00
Non-Target Ecological Systems																			
Coastal Systems																			
124	3	2.19	0.00			0.00			0.00			0.00			0.00				0.00
Unclassified Ecological Systems																			
2	9	154.56	0.08			0.00			0.00			0.00	1	0.13	0.08	2	0.13	0.13	0.08
5	3	0.19	0.00			0.00			0.00			0.00			0.00				0.00
6	271	815.25	0.40			0.00	7	703.19	86.25	1	0.63	0.08	31	762.31	93.51	44	762.63	762.63	93.54

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Big Creek

Tertiary Watershed 2GC

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area:	401,231 hectares (991,441 acres)
Land Ownership:	Public Land ~ 5% Private Land ~ 95%
Planning Authority:	40% Norfolk County, 28% Elgin County, 12% Oxford County, 10% Haldimand County, 4% Brant County, 3% Middlesex County, 3% Niagara Region

General Description:

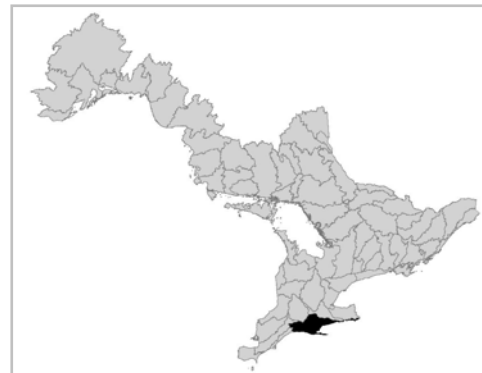
Tertiary watershed 2GC drains into north shore of Lake Erie. There are approximately 20,456 hectares of coastal areas, 366,326 hectares of stream systems, 1,345 hectares of lakes and 11,324 hectares of wetlands. Watershed 2GC contains a significant portion of Lake Erie shoreline, including the Long Point peninsula. Its coastal area stretches from Port Stanley to the Niagara River. Natural cover in the region consists primarily of dense deciduous forest. Mixed forests, sparse deciduous forests, deciduous swamps and coniferous swamps also occur. There is also a large marsh around the Long Point peninsula.

Land Use:

Agriculture is the dominant land use in this watershed; cropland covers the majority of the area. Some patches of developed land are present around the region's settlements which include Aylmer, St. Thomas, Tillsonburg, Simcoe and Norfolk. A few quarries are scattered throughout, and are particularly concentrated around Long Point peninsula.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2GC is 18,470 hectares, constituting approximately 4.6% of the watershed's total area. Almost half of these lands (7,789 hectares) are located in provincially significant life science ANSIs, of which 136 hectares coincide



with provincial parks. There are approximately 6,145 hectares of protected coastal areas, 27,493 hectares of protected stream systems, 258 hectares of protected lakes and 8,450 hectares of protected wetlands.

Species and Vegetation Community Targets:

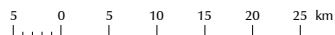
Twenty-three species targets are known from watershed 2GC. The primary targets are Eastern Sand Darter (*Ammocrypta pellucida*), Schweinitz's Sedge (*Carex schweinitzii*) and Pugnose Shiner (*Notropis anogenus*). The remaining 20 species are secondary targets. There are no occurrences of primary targets in protected areas. Eighteen of the 20 secondary targets are known to occur in conservation lands. Four significant vegetation communities have occurrences in this watershed: Buttonbush Organic Thicket Swamp, Graminoid Coastal Meadow Marsh, Silver/Red Maple Mineral Deciduous Swamp and Tamarack Coniferous Organic Swamp. All of the communities are known from protected areas or conservation lands.

Conservation Blueprint:

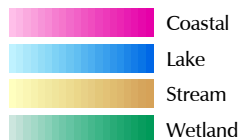
The Conservation Blueprint includes 6,145 hectares of coastal areas, 27,493 hectares of stream systems, 258 hectares of lakes and 8,450 hectares of wetlands. The Conservation Blueprint also includes all known occurrences for each of the primary species targets: Eastern Sand Darter (2), Schweinitz's Sedge (2) and Pugnose Shiner (1).

Great Lakes Conservation Blueprint for Biodiversity

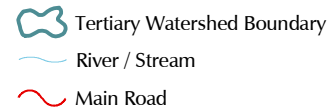
BIG CREEK WATERSHED 2GC



Aquatic Ecological Systems



Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

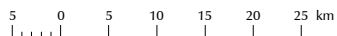
For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

BIG CREEK WATERSHED 2GC



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

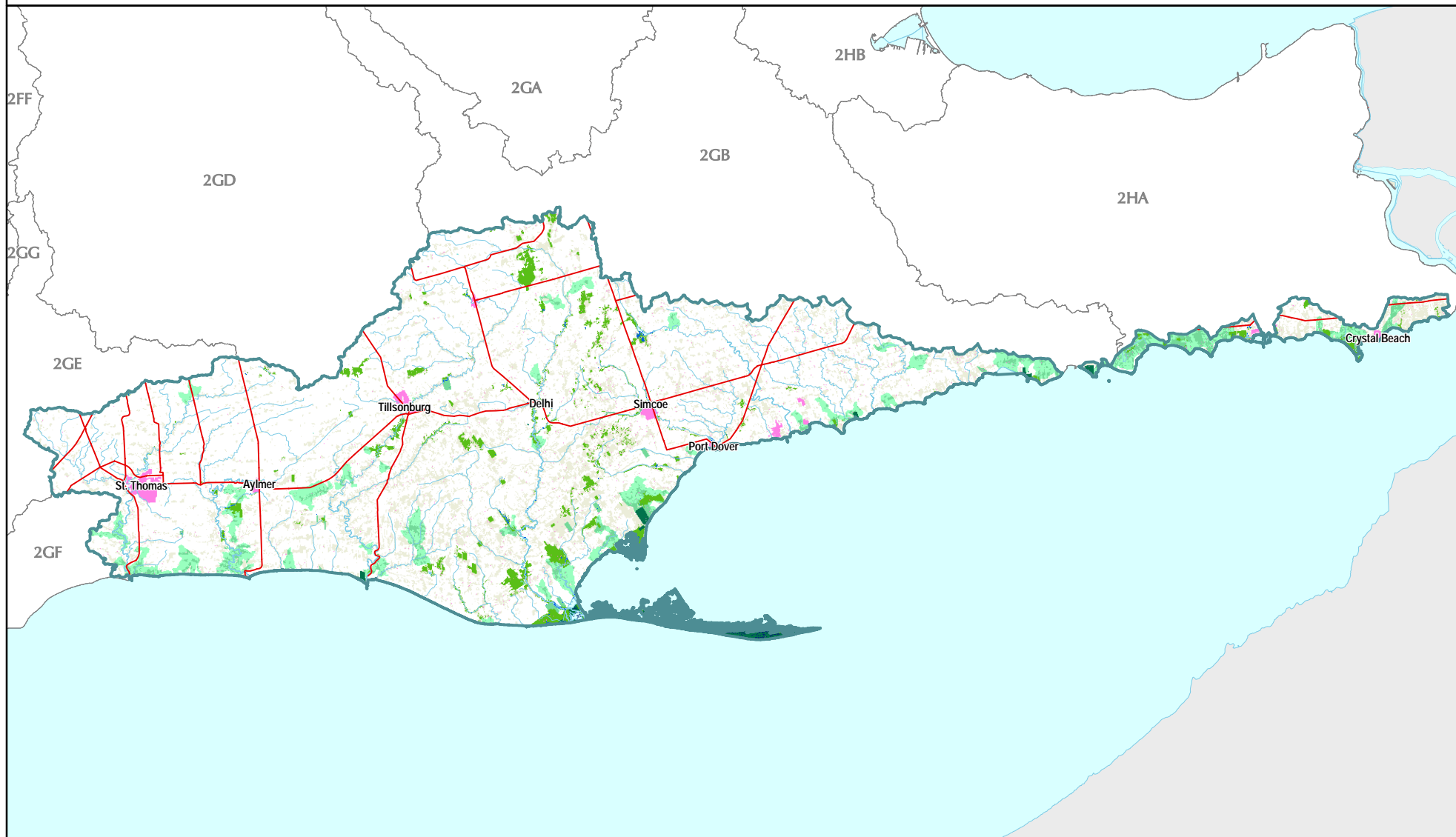
- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Documented extant vegetation communities and significant species information for tertiary watershed 2GC

# of pops in 2GC	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federal lands	% of pops in Parks and PAS	% of pops in PS LS-ANSIs	% of pops in CAs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species																
3	<i>Ambystoma jeffersonianum</i>	Jefferson Salamander	G4	S2	THR	THR	SAR	0	0	33	33	1	33	2	67	secondary
12	<i>Bufo fowleri</i>	Fowler's Toad	G5	S2	THR	THR	SAR	8	17	25	0	6	50	8	67	secondary
3	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	33	67	0	3	100	3	100	secondary
6	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S4B,SZN	NAR	END-R	SAR	0	0	50	0	3	50	4	67	secondary
8	<i>Rallus elegans</i>	King Rail	G4G5	S2B,SZN	END	END-R	SAR	13	13	75	0	6	75	6	75	secondary
5	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	0	60	0	3	60	3	60	secondary
2	<i>Protonotaria citrea</i>	Prothonotary Warbler	G5	S1S2B,SZN	END	END-R	SAR	0	0	50	50	2	100	2	100	secondary
18	<i>Seiurus motacilla</i>	Louisiana Waterthrush	G5	S3B,SZN	SC	SC	SAR	0	0	22	22	6	33	9	50	secondary
1	<i>Notropis anogenus</i>	Pugnose Shiner	G3	S2	END	END	GRank SAR	0	0	100	0	1	100	1	100	4
1	<i>Macrhybopsis storeriana</i>	Silver Chub	G5	S2	SC	SC	SAR	0	0	0	0	0	0	0	0	secondary
2	<i>Ammocrypta pellucida</i>	Eastern Sand Darter	G3	S2	THR	THR	GRank SAR	0	50	50	0	2	100	2	100	2
7	<i>Clemmys guttata</i>	Spotted Turtle	G5	S3	END	SC	SAR	0	14	29	14	3	43	3	43	secondary
1	<i>Glyptemys insculpta</i>	Wood Turtle	G4	S2	SC	END	SAR	0	0	100	0	1	100	1	100	secondary
36	<i>Graptemys geographica</i>	Northern Map Turtle	G5	S3	SC	SC	SAR	17	8	53	3	24	67	26	72	secondary
4	<i>Sternotherus odoratus</i>	Stinkpot	G5	S3	THR	THR	SAR	0	0	25	0	1	2	3	75	secondary
2	<i>Apalone spinifera</i>	Spiny Softshell	G5	S3	THR	THR	SAR	0	0	50	0	1	50	1	50	secondary
2	<i>Regina septemvittata</i>	Queen Snake	G5	S2	THR	THR	SAR	0	0	50	0	1	50	1	50	secondary
1	<i>Lampsilis fasciola</i>	Wavy-rayed Lampmussel	G4	S1	END	END	SAR	0	0	100	0	1	100	1	100	secondary
1	<i>Justicia americana</i>	American Water-willow	G5	S1	THR	THR	SAR	0	100	0	0	1	100	1	100	secondary
5	<i>Hibiscus moscheutos</i>	Swamp Rose-mallow	G5	S3	SC	SC	SAR	0	20.	60	0	4	80	4	80	secondary
6	<i>Arisaema dracontium</i>	Green Dragon	G5	S3	SC	SC	SAR	0	0	0	0	0	0	0	0	secondary
1	<i>Carex schweinitzii</i>	Schweinitz's Sedge	G3	S3			GRank	0	0	0	0	0	0	1	100	2
1	<i>Cypripedium candidum</i>	Small White Lady's-slipper	G4	S1	END	END-R	SAR	0	0	100	0	1	100	1	100	secondary
Communities																
1	Buttonbush Organic Thicket Swamp Type		G4	S3			SRank	0	0	100	0	1	100	1	100	3
4	Graminoid Coastal Meadow Marsh Type		G2?	S2			GRank	0	75	0	0	3	75	4	100	all viable
2	Silver / Red Maple Mineral Deciduous Swamp Type		G4?	S5			high quality	0	0	100	50	2	100	2	100	secondary
1	Tamarack Coniferous Organic Swamp Type		G4	S5			high quality	0	100	100	0	1	100	1	100	secondary

Ecological systems summary for tertiary watershed 2GC

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	20456.75	5.10	1620.13	7.92	6145.38	30.04	3743.31	18.30
Stream Systems	366326.69	91.30	6514.56	1.78	27493.81	7.51	11994.25	3.27
Lake Systems	1345.63	0.34	243.94	18.13	258.88	19.24	258.88	19.24
Wetland Systems	11324.13	2.82	8414.19	74.30	8450.13	74.62	8450.13	74.62
Tertiary watershed	401231.56	100.00	18470.56	4.60	44025.88	10.97	26124.25	6.51

Ecological systems details for tertiary watershed 2GC

System Integer	# of patches in 2GC	Total area (ha) in 2GC	% of total area in 2AC	# of patches in federal lands	Total area (ha) federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	# of patches in CA lands	Total area (ha) in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																		
Coastal Systems																		
101	19	321.88	0.08											0.00	4	99.25	99.25	30.83
102	1	6.63	0.00											0.00	1	6.63	6.63	100.00
104	63	176.13	0.04			2	7.75	3	2.81	1	2.63	6	15.44	8.77	11	31.94	31.94	18.13
105	36	162.19	0.04	1	27.63	5	30.81	2	10.25			9	58.69	36.18	16	66.50	66.50	41.00
106	11	38.63	0.01			4	2.69	1	0.56			7	3.38	8.74	4	37.25	37.25	96.44
107	1	1.50	0.00											0.00	1	1.50	1.50	100.00
108	69	228.31	0.06	4	29.75	10	18.94	17	55.75	1	3.38	26	82.94	36.33	31	88.25	88.25	38.65
113	18	18.94	0.00									14	1.94	10.23	19	7.00	7.00	36.96
115	5	4.44	0.00					6	4.31			6	4.31	97.18	9	4.31	4.31	97.18
116	110	120.75	0.03	57	53.56	8	1.69	104	116.06			102	116.56	96.53	162	116.63	116.63	96.58
117	12	10.88	0.00	1	0.50			1	1.94			2	2.44	22.41	6	9.38	9.38	86.21
120	62	64.88	0.02	32	42.06			60	57.75			63	63.06	97.21	74	63.81	63.81	98.36
125	143	11111.31	2.77			10	110.06	15	20.25	16	115.31	245	273.50	2.46	181	2697.19	1292.69	24.27
126	17	455.94	0.11											0.00	3	122.63	16.81	26.90
127	185	7229.75	1.80	97	426.06	19	234.44	137	622.44	7	50.56	239	938.88	12.99	256	2734.13	1842.38	37.82
199	72	216.19	0.05	8	2.13	12	12.13	21	36.25	1	0.06	32	46.00	21.28	51	46.00	46.00	21.28
Stream Systems																		
201	11	1197.88	0.30					1	3.31	1	9.69	1	9.69	0.81	5	952.56	229.06	79.52
202	11	1057.19	0.26					1	14.75	1	3.31	2	18.06	1.71	4	640.00	141.94	60.54
203	40	8958.50	2.23			4	177.44	7	223.88	7	164.94	141	689.38	7.70	153	2515.31	1243.69	28.08
204	1	160.06	0.04											0.00	1	160.06	10.31	100.00
205	28	208.69	0.05	1	0.13			8	36.38	2	0.25	15	37.13	17.79	14	206.50	72.19	98.95
206	169	76681.00	19.11			1	13.75	15	324.56	98	1113.63	1204	1563.25	2.04	1438	1880.81	1713.50	2.45
207	15	1699.38	0.42					1	11.38			1	11.38	0.67	6	1303.88	209.19	76.73
208	54	3941.81	0.98			1	2.56	13	205.25	11	140.75	45	276.75	7.02	55	679.88	476.50	17.25
209	11	393.44	0.10									1	0.06	0.02	5	146.94	21.69	37.35

System Integer	# of patches in 2GC	Total area (ha) in 2GC	% of total area in 2AC	# of patches in federal lands	Total area (ha) federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	# of patches in CA lands	Total area (ha) in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																		
Stream Systems																		
210	77	48267.75	12.03			2	34.38			18	100.75	196	178.25	0.37	221	898.31	368.31	1.86
211	80	13.69	0.00											0.00				0.00
212	17	896.88	0.22											0.00	3	495.63	75.00	55.26
213	64	5032.81	1.25			4	17.00			1	43.19	25	62.38	1.24	18	2679.13	811.06	53.23
214	5	1115.31	0.28			3	4.19					42	10.06	0.90	5	1114.81	482.88	99.96
215	167	43559.63	10.86					17	171.19	129	968.06	1025	1150.56	2.64	1240	1677.75	1408.56	3.85
216	65	41659.81	10.38							22	208.69	157	226.31	0.54	181	1299.31	426.00	3.12
217	143	25305.81	6.31					4	53.81	6	44.56	125	89.00	0.35	115	1460.13	328.00	5.77
218	69	16466.81	4.10					2	7.06	6	8.13	86	23.81	0.14	102	908.50	174.94	5.52
219	28	15627.50	3.89			2	21.75	11	74.31	8	149.38	33	375.31	2.40	40	1839.38	756.94	11.77
220	28	7134.25	1.78							6	6.69	12	7.38	0.10	13	720.31	275.19	10.10
222	40	14676.44	3.66	5	19.75	14	61.38	12	31.81	4	17.00	73	154.31	1.05	98	933.31	430.19	6.36
223	3	212.31	0.05											0.00	3	212.31	38.25	100.00
224	61	37160.31	9.26			1	0.06	24	972.31	58	564.94	589	1565.00	4.21	709	1811.38	1596.38	4.87
225	46	7983.19	1.99					1	8.31	1	0.06	11	9.81	0.12	26	1080.63	217.31	13.54
227	2	0.56	0.00											0.00				0.00
229	2	15.00	0.00											0.00				0.00
230	39	6768.38	1.69							6	39.69	25	42.56	0.63	30	1841.56	466.25	27.21
232	4	132.31	0.03					1	14.13			1	14.13	10.68	3	35.44	20.94	26.78
Lake Systems																		
325	552	154.38	0.04	300	55.25			284	56.88	6	2.06	318	62.75	40.65	414	62.75	62.75	40.65
326	420	203.75	0.05	7	3.69			7	10.50	38	41.31	94	55.19	27.09	127	55.00	55.00	26.99
327	75	26.31	0.01					3	0.38			11	7.19	27.32	16	7.19	7.19	27.32
328	1808	287.50	0.07	8	0.81			9	0.81	19	2.75	50	5.94	2.07	57	14.19	14.19	4.93
329	80	91.63	0.02	10	0.94			21	9.63	5	6.50	36	14.19	15.48	45	15.88	15.88	17.33
330	190	129.25	0.03	10	19.13			20	20.81	16	3.69	44	28.38	21.95	64	28.38	28.38	21.95
331	429	106.50	0.03					1	0.13	5	41.00	14	41.81	39.26	18	43.06	43.06	40.43
332	454	83.00	0.02					1	0.13	1	0.06	5	0.63	0.75	10	2.31	2.31	2.79
333	142	63.44	0.02					7	6.94	13	8.06	25	18.94	29.85	34	20.00	20.00	31.53
334	416	135.63	0.03			1	0.06	7	0.94	11	2.13	16	2.75	2.03	19	3.94	3.94	2.90
335	106	42.69	0.01							3	4.38	7	5.00	11.71	9	5.00	5.00	11.71
336	100	21.44	0.01					1	0.75	4	1.00	5	1.06	4.96	5	1.06	1.06	4.96
Wetland Systems																		
401	394	632.88	0.16	97	174.50	16	29.06	175	299.38	33	48.38	342	543.00	85.80	483	547.38	547.38	86.49
402	132	551.25	0.14	3	26.81	2	47.56	10	55.50	20	60.38	99	447.75	81.22	134	451.81	451.81	81.96
404	11	1412.31	0.35	2	377.63	1	14.13	16	1402.75	6	252.25	16	1407.94	99.69	33	1413.63	1413.63	100.00
405	1136	3599.38	0.90	78	93.50	16	20.25	168	461.25	152	515.44	660	2139.13	59.43	872	2140.69	2140.69	59.47
406	558	4791.56	1.19			4	24.63	42	394.81	78	710.56	350	3544.63	73.98	535	3560.25	3560.25	74.30
407	64	334.94	0.08	55	316.13			56	322.31			60	329.94	98.51	88	334.56	334.56	99.89
409	1	1.81	0.00									1	1.81	100.00	1	1.81	1.81	100.00

System Integer	# of patches in 2GC	Total area (ha) in 2GC	% of total area in 2AC	# of patches in federal lands	Total area (ha) federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	# of patches in CA lands	Total area (ha) in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Non-Target Ecological Systems																		
Coastal Systems																		
121	22	99.25	0.02									5	0.81	0.82	11	0.81	0.81	0.82
122	15	21.88	0.01			2	0.63					2	0.63	2.86	3	0.63	0.63	2.86
123	1	2.94	0.00									1	0.06	2.13	1	0.06	0.06	2.13
124	73	164.38	0.04			6	0.50	4	10.56	1	0.13	13	11.50	7.00	18	11.50	11.50	7.00
Unclassified Ecological Systems																		
3	1	0.13	0.00					1	0.13			1	0.13	100.00	1	0.13	0.13	100.00
5	962	1548.00	0.39	193	563.19	11	2.00	784	1469.56			806	1475.50	95.32	1245	1475.44	1475.44	95.31
6	408	230.38	0.06	149	144.25	2	4.19	161	184.25	13	2.69	184	202.25	87.79	235	202.25	202.25	87.79

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Upper Thames

Tertiary Watershed 2GD

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area: 306,838 hectares (758,196 acres)

Land Ownership: Public Land ~ 1%
Private Land ~ 99%

Planning Authority: 38% Perth County
36% Oxford County
25% Middlesex County
1% Huron County

General Description:

Tertiary watershed 2GD drains into northern Lake Erie, but does not have any Great Lakes coastline. There are approximately 299,793 hectares of stream systems, 1,116 hectares of lakes and 5,898 hectares of wetlands. Part of the Thames River is located within this inland watershed. The remaining natural cover consists primarily of deciduous and mixed forests, deciduous swamps and coniferous swamps.

Land Use:

Agriculture is the dominant land use in the watershed. Cropland covers almost the entire watershed. Patches of developed land are also present including the city of London as well as smaller communities such as Woodstock, Ingersoll and St. Mary's. A few small conifer plantations are scattered throughout the region.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2GD is 8,133 hectares, constituting approximately 2.6% of the watershed's total area. The majority of these lands (5,631 ha) are Conservation Authority lands. There are approximately 4,014 hectares of protected



stream systems, 602 hectares of protected lakes and 3,514 hectares of protected wetlands.

Species and Vegetation Community Targets:

Nine species targets are known from watershed 2GD. Primary targets include Rapids Clubtail (*Gomphus quadricolor*), Silver Shiner (*Notropis photogenis*) and Rayed Bean (*Villosa fabalis*). Secondary targets include Green Dragon (*Arisaema dracontium*), Spotted Turtle (*Clemmys guttata*), Greenside Darter (*Etheostoma blennioides*), Northern Map Turtle (*Graptemys geographica*), Wavy-rayed Lampmussel (*Lampsilis fasciola*) and Queen Snake (*Regina septemvittata*). There are occurrences of Northern Map Turtle and Silver Shiner in conservation lands. There are no documented occurrences of rare vegetation communities in this watershed.

Conservation Blueprint:

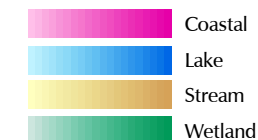
The Conservation Blueprint includes 34,896 hectares of stream systems, 655 hectares of lakes and 3,648 hectares of wetlands. The Conservation Blueprint includes all of the known occurrences for primary species targets: Rapids Clubtail (1), Silver Shiner (2) and Rayed Bean (2). The portfolio also includes occurrences for each of the secondary targets, with the exception of Spotted Turtle.

Great Lakes Conservation Blueprint for Biodiversity

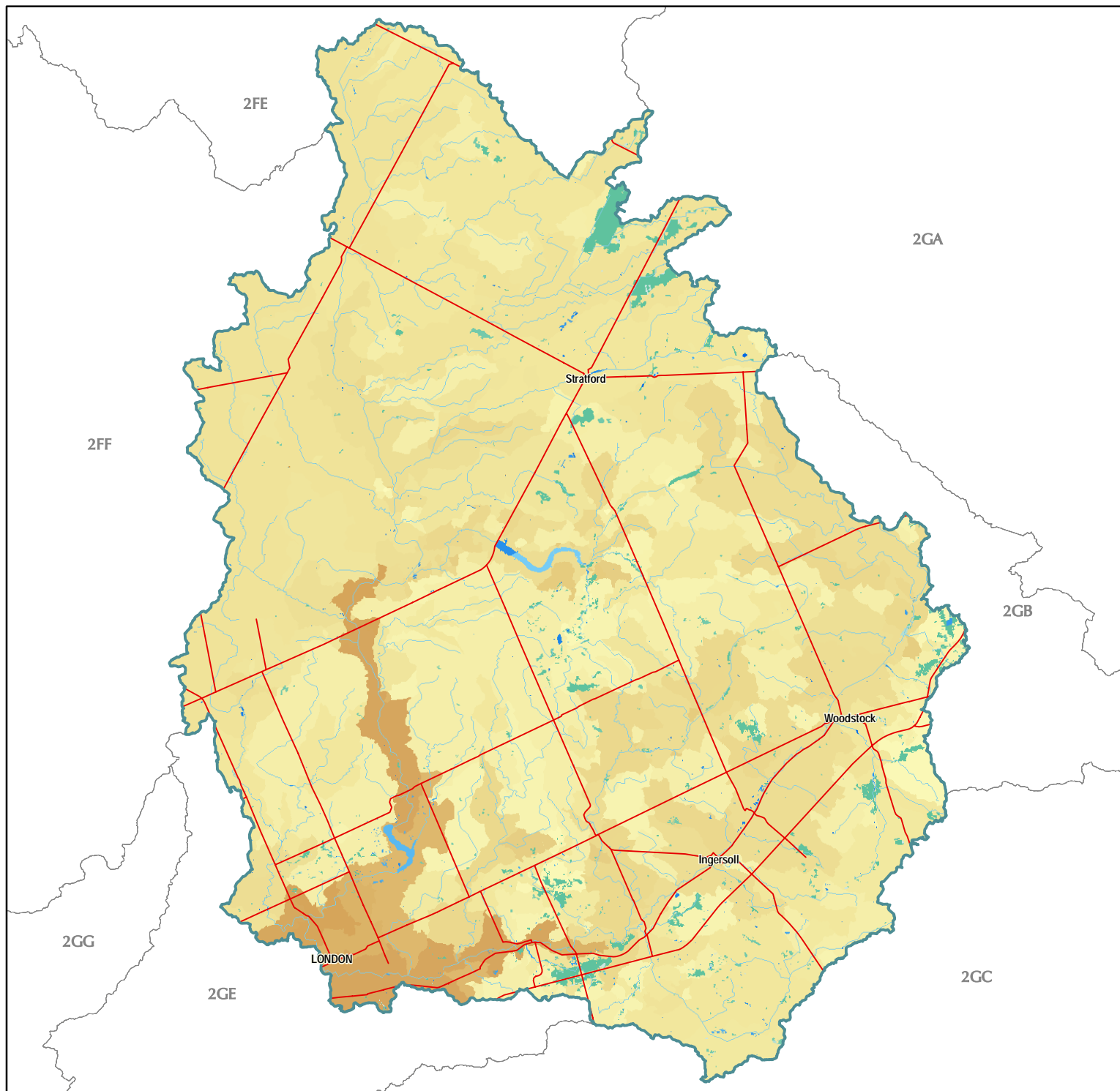
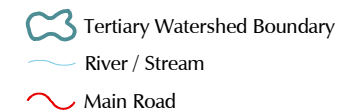
UPPER THAMES WATERSHED 2GD



Aquatic Ecological Systems



Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

UPPER THAMES WATERSHED 2GD



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

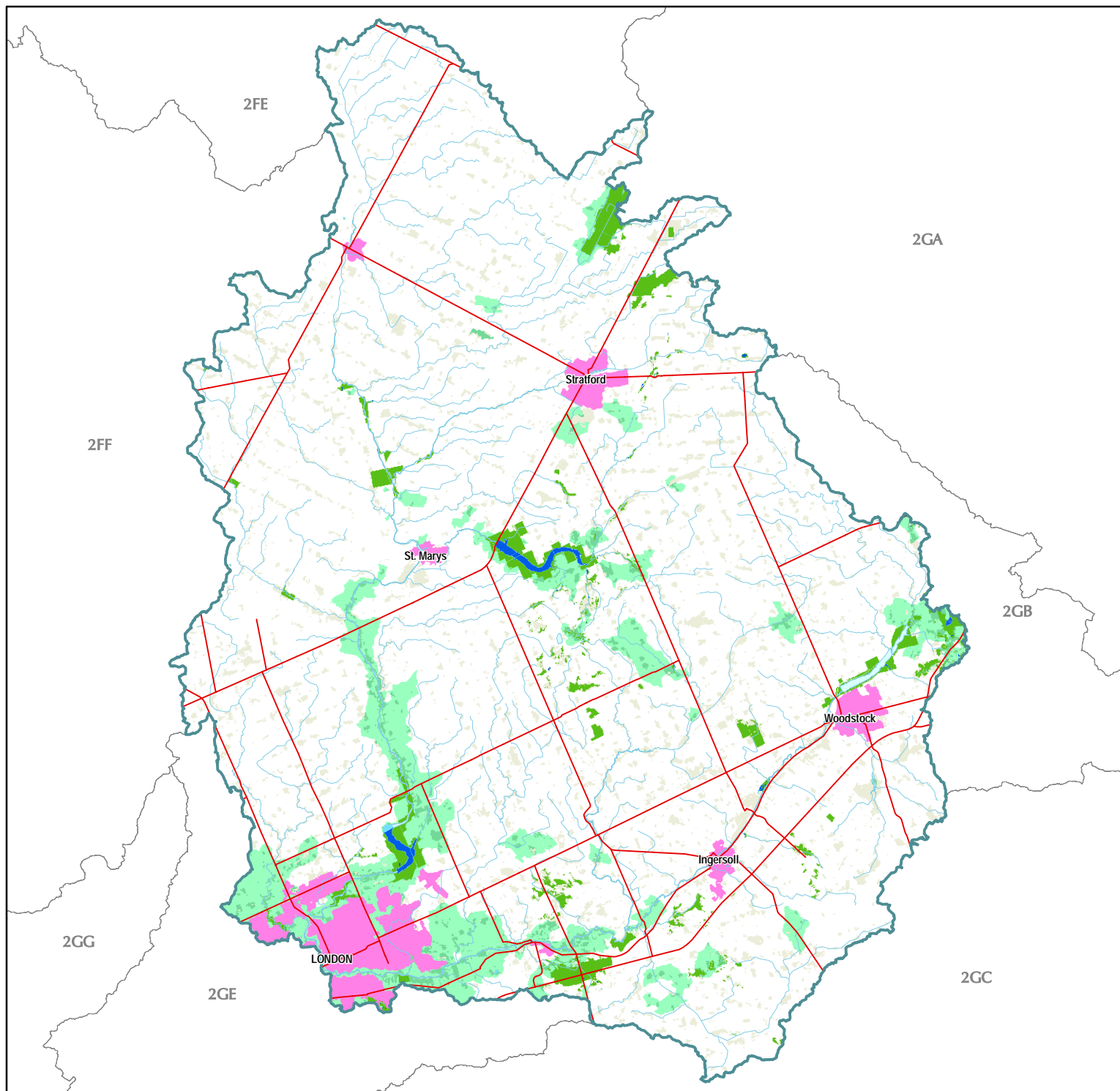
- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Documented extant significant species information for tertiary watershed 2GD

# of pops in 2GD	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in CAs	% of pops in CAs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species														
2	<i>Notropis photogenis</i>	Silver Shiner	G5	S2S3	SC	SC	SAR	1	50	1	50	2	100	3
4	<i>Etheostoma blennioides</i>	Greenside Darter	G5	S4	SC	SC	SAR	0	0	0	0	1	25	secondary
2	<i>Clemmys guttata</i>	Spotted Turtle	G5	S3	END	SC	SAR	0	0	0	0	0	0	secondary
30	<i>Graptemys geographica</i>	Northern Map Turtle	G5	S3	SC	SC	SAR	11	37	11	37	29	97	secondary
2	<i>Regina septemvittata</i>	Queen Snake	G5	S2	THR	THR	SAR	0	0	0	0	2	100	secondary
1	<i>Gomphus quadricolor</i>	Rapids Clubtail	G3G4	S1			GRank	0	0	0	0	1	100	2
6	<i>Lampsilis fasciola</i>	Wavy-rayed Lampmussel	G4	S1	END	END	SAR	0	00	0	0	4	67	secondary
2	<i>Villosa fabalis</i>	Rayed Bean	G1G2	S1	END	END	GRank SAR	0	0	0	0	2	100	all viable
2	<i>Arisaema dracontium</i>	Green Dragon	G5	S3	SC	SC	SAR	0	0	0	0	2	100	secondary

Ecological systems summary for tertiary watershed 2GD

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stream Systems	299793.06	97.70	4014.94	1.34	34896.94	11.64	7913.75	2.64
Lake Systems	1116.88	0.36	602.50	53.95	655.50	58.69	655.50	58.69
Wetland Systems	5898.69	1.92	3514.44	59.58	3648.69	61.86	3648.69	61.86
Tertiary watershed	306838.75	100.00	8133.31	2.65	39202.44	12.78	12219.25	3.98

Ecological systems details for tertiary watershed 2GD

System Integer	# of patches in 2GD	Total area (ha) in 2GD	% of total area in 2GD	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) in CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																
Stream Systems																
202	3	72.94	0.02			0.00			0.00			0.00	5	72.94	1.88	100.00
203	18	2786.56	0.91	8	20.81	0.75			0.00	173	40.00	1.44	116	465.00	202.19	16.69
204	2	88.56	0.03			0.00			0.00			0.00	2	88.56	15.00	100.00

System Integer	# of patches in 2GD	Total area (ha) in 2GD	% of total area in 2GD	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) in CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Stream Systems continued																
205	7	425.19	0.14	8	21.94	5.16	5	9.31	2.19	25	32.94	7.75	4	352.38	111.50	82.88
206	67	15093.94	4.92	11	24.88	0.16	13	15.94	0.11	279	71.81	0.48	291	477.38	172.69	3.16
207	11	722.38	0.24	4	0.50	0.07	5	71.88	9.95	7	72.31	10.01	11	482.94	94.94	66.85
208	23	2376.81	0.77			0.00	2	0.81	0.03	64	7.00	0.29	34	474.25	97.75	19.95
210	77	59207.44	19.30	6	55.38	0.09	14	52.50	0.09	315	147.31	0.25	361	898.13	221.38	1.52
211	7	781.06	0.25			0.00	15	13.44	1.72	22	14.00	1.79	10	728.88	65.06	93.32
212	13	585.56	0.19			0.00	1	2.19	0.37	3	2.56	0.44	5	237.63	63.56	40.58
213	1	40.75	0.01			0.00			0.00			0.00				0.00
214	9	272.00	0.09			0.00	15	12.19	4.48	21	12.75	4.69	11	204.38	21.31	75.14
215	56	12153.38	3.96	13	43.50	0.36	16	36.81	0.30	137	89.38	0.74	165	844.50	223.94	6.95
216	76	51352.69	16.74			0.00	10	39.44	0.08	148	55.88	0.11	180	62.25	61.88	0.12
217	54	18716.19	6.10			0.00	4	18.94	0.10	40	22.75	0.12	46	1880.88	218.81	10.05
218	30	48335.75	15.75	13	49.00	0.10	35	92.88	0.19	147	145.50	0.30	134	676.94	215.75	1.40
219	4	629.63	0.21			0.00	5	37.50	5.96	12	38.44	6.10	6	623.88	162.94	99.09
220	16	12967.81	4.23			0.00	21	470.31	3.63	21	470.31	3.63	29	1693.31	560.81	13.06
222	21	28913.31	9.42	1	5.25	0.02	35	1388.94	4.80	94	1400.69	4.84	131	3587.75	1721.44	12.41
223	3	109.50	0.04			0.00			0.00			0.00	3	109.50	18.63	100.00
224	11	8153.25	2.66	3	7.56	0.09	27	110.31	1.35	65	120.06	1.47	60	675.25	176.31	8.28
225	29	16690.69	5.44	3	53.19	0.32	13	72.44	0.43	21	126.00	0.75	26	1261.13	245.56	7.56
227	2	21.50	0.01			0.00	2	12.13	56.40	2	12.13	56.40	3	12.13	12.13	56.40
228	1	33.06	0.01			0.00			0.00			0.00				0.00
229	2	26.31	0.01			0.00			0.00			0.00				0.00
230	7	1060.31	0.35			0.00			0.00			0.00	4	964.00	149.19	90.92
231	2	159.50	0.05			0.00	2	49.06	30.76	2	49.06	30.76	2	159.50	62.31	100.00
232	2	5.94	0.00			0.00			0.00			0.00				0.00
233	8	589.81	0.19			0.00	8	20.13	3.41	23	21.75	3.69	12	505.63	104.19	85.73
239	1	3.31	0.00			0.00			0.00			0.00				0.00
243	5	4315.88	1.41			0.00	1	499.94	11.58	1	499.94	11.58	9	4285.25	901.81	99.29
245	1	29.13	0.01			0.00			0.00			0.00				0.00

System Integer	# of patches in 2GD	Total area (ha) in 2GD	% of total area in 2GD	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) in CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Stream Systems continued																
246	3	2351.63	0.77			0.00	2	82.25	3.50	2	82.25	3.50	3	2351.63	269.19	100.00
251	4	741.38	0.24			0.00	1	44.50	6.00	1	44.50	6.00	4	740.81	81.31	99.92
252	4	7844.50	2.56			0.00	7	341.75	4.36	8	343.00	4.37	6	7844.81	1409.75	100.00
253	1	75.19	0.02			0.00	1	28.94	38.49	1	28.94	38.49	1	75.19	29.25	100.00
254	4	2060.25	0.67			0.00	2	63.69	3.09	2	63.69	3.09	6	2060.19	221.31	100.00
Lake Systems																
317	2	251.13	0.08			0.00	2	249.94	99.53	2	249.94	99.53	3	251.13	251.13	100.00
322	1	235.06	0.08			0.00	1	203.19	86.44	1	203.19	86.44	1	235.06	235.06	100.00
325	56	47.88	0.02			0.00			0.00	5	1.75	3.66	9	1.75	1.75	3.66
326	38	30.69	0.01	1	0.06	0.20			0.00	2	0.31	1.02	3	0.31	0.31	1.02
327	92	59.31	0.02			0.00	7	9.88	16.65	8	9.94	16.75	16	19.13	19.13	32.24
328	138	76.25	0.02	2	18.50	24.26	1	0.06	0.08	3	18.56	24.34	5	19.75	19.75	25.90
329	37	51.94	0.02			0.00			0.00			0.00	4	4.25	4.25	8.18
330	70	139.94	0.05			0.00	7	99.81	71.33	10	100.19	71.59	19	102.75	102.75	73.43
331	32	16.94	0.01			0.00	1	2.75	16.24	2	2.88	16.97	2	2.88	2.88	16.97
332	269	109.63	0.04			0.00	4	1.06	0.97	15	3.31	3.02	17	6.06	6.06	5.53
333	15	20.38	0.01			0.00	1	1.75	8.59	1	1.75	8.59	1	1.75	1.75	8.59
334	63	26.50	0.01			0.00	2	0.38	1.42	2	0.38	1.42	2	0.38	0.38	1.42
335	83	38.81	0.01			0.00	4	1.63	4.19	15	3.56	9.18	24	3.56	3.56	9.18
336	20	12.44	0.00			0.00	1	6.75	54.27	1	6.75	54.27	1	6.75	6.75	54.27
Wetland Systems																
401	102	140.56	0.05	11	5.88	4.18	19	35.88	25.52	53	69.88	49.71	74	71.63	71.63	50.96
402	60	123.50	0.04	4	2.88	2.33	4	24.38	19.74	35	75.63	61.23	43	87.19	87.19	70.60
405	475	1081.19	0.35	6	27.13	2.51	11	14.06	1.30	134	272.63	25.22	153	335.31	335.31	31.01
406	317	4546.31	1.48	9	416.00	9.15	29	1390.19	30.58	214	3094.50	68.07	313	3152.75	3152.75	69.35
407	1	0.19	0.00			0.00	1	0.19	100.00	1	0.19	100.00	1	0.19	0.19	100.00
408	3	6.00	0.00			0.00			0.00	1	1.06	17.71	1	1.06	1.06	17.71
409	1	0.94	0.00			0.00			0.00	1	0.56	60.00	1	0.56	0.56	60.00

System Integer	# of patches in 2GD	Total area (ha) in 2GD	% of total area in 2GD	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) in CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Non-Target Ecological Systems																
Unclassified Ecological Systems																
6	281	30.13	0.01			0.00	4	1.25	4.15	7	1.44	4.77	5	1.31	1.31	4.36

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Lower Thames

Tertiary Watershed 2GE

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area:	283,559 hectares (700,674 acres)
Land Ownership:	Public Land ~ 2% Private Land ~ 93% First Nations Lands ~ 5%
Planning Authority:	51% Chatham-Kent, 30% Middlesex County, 12% Elgin County, 7% Essex County

General Description:

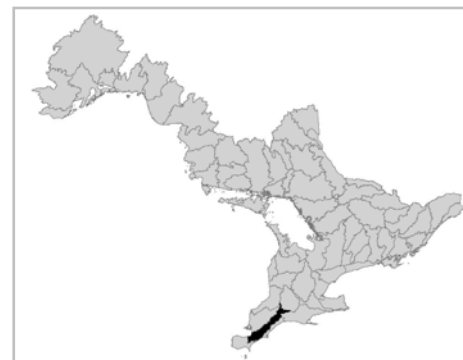
Tertiary watershed 2GE drains into northern Lake Erie, and has a small amount of Great Lakes coastline. There are approximately 231 hectares of coastal areas, 280,258 hectares of stream systems, 431 hectares of lakes and 2,598 hectares of wetlands. This narrow watershed follows much of the Thames River to its outflow at Lake St. Clair. The southeast portion of the Lake St. Clair shoreline is included within the watershed. The few remaining areas of natural cover consist primarily of dense and sparse deciduous forest, mixed forest and deciduous swamp.

Land Use:

Agriculture is the dominant land use in this watershed; cropland covers almost the entire area. Chatham is the major settlement within the watershed, however many smaller rural communities are also present.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2GE is 4,165 hectares, constituting approximately 1.5% of the watershed's total area. Over half of these lands (2,290 ha) are located in provincially significant life science ANSIs, of which 130 hectares coincide with provincial parks. There are about four hectares of protected coastal areas



2,136 hectares of protected stream systems, 13 hectares of protected lakes and 1,990 hectares of protected wetlands.

Species and Vegetation Community Targets:

Twenty-seven species targets are known to occur in watershed 2GE. Primary targets include Eastern Sand Darter (*Ammocrypta pellucida*), Schweinitz's Sedge (*Carex schweinitzii*), Snuffbox (*Epioblasma triquetra*), Silver Shiner (*Notropis photogenis*), Northern Madtom (*Noturus stigmosus*), Channel Darter (*Percina copelandi*), Salamander Mussel (*Simpsonaias ambigua*) and Rayed Bean (*Villosa fabalis*). There are no occurrences for any of the primary targets in protected areas; however, five of the 19 secondary species targets have occurrences in conservation lands. There are no documented occurrences of rare vegetation communities in this watershed.

Conservation Blueprint:

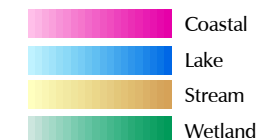
The Conservation Blueprint includes 92 hectares of coastal areas, 52,159 hectares of stream systems, 21 hectares of lakes and 2,029 hectares of wetlands. The Conservation Blueprint includes most of the occurrences for primary targets: Eastern Sand Darter (7), Schweinitz's Sedge (1), Snuffbox (1), Silver Shiner (2), Northern Madtom (1), Channel Darter (1), Salamander Mussel (1) and Rayed Bean (2). The portfolio also includes occurrences for 16 of the 19 secondary species targets.

Great Lakes Conservation Blueprint for Biodiversity

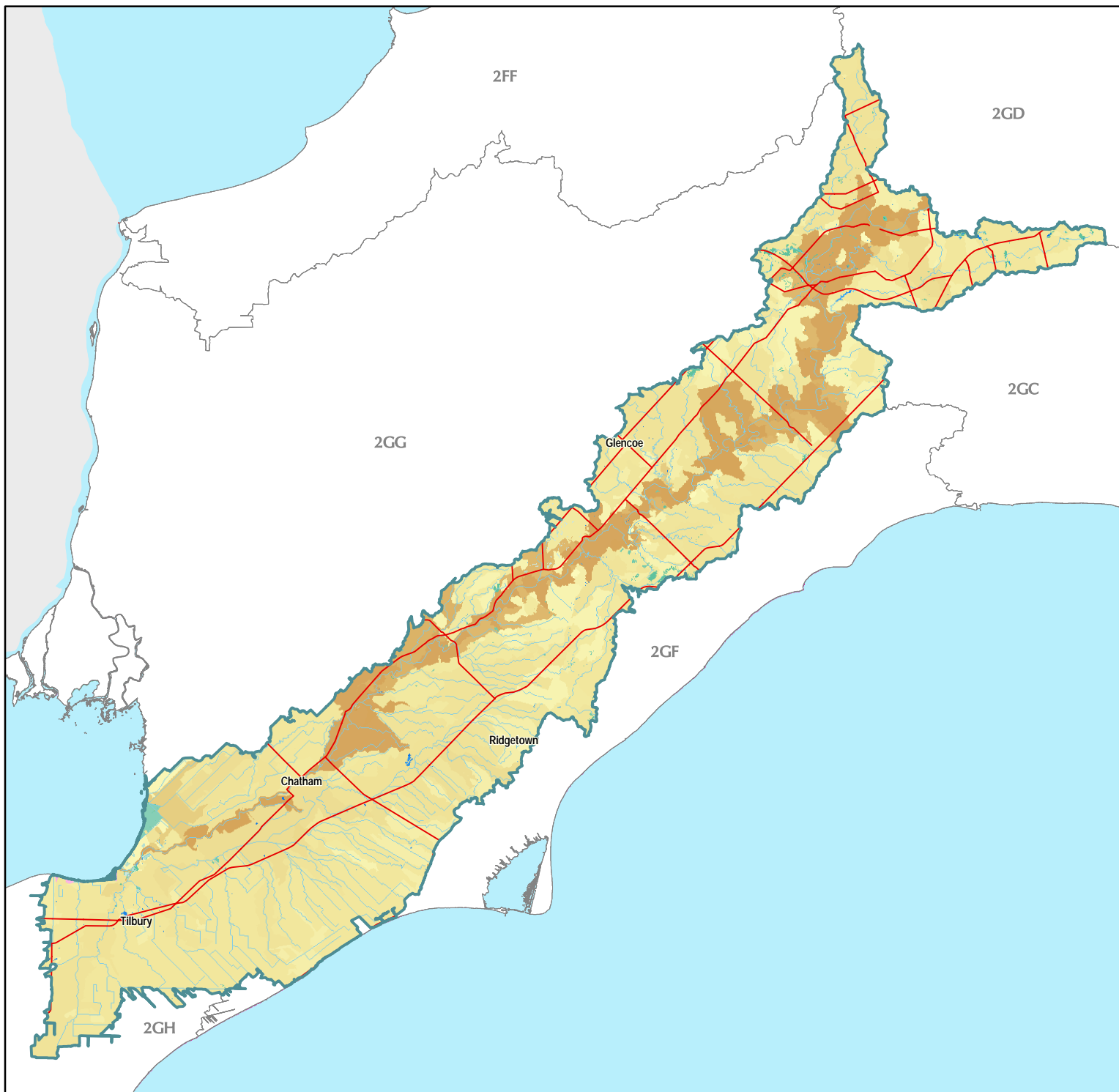
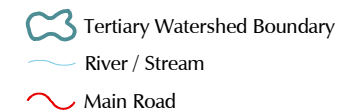
LOWER THAMES WATERSHED 2GE



Aquatic Ecological Systems



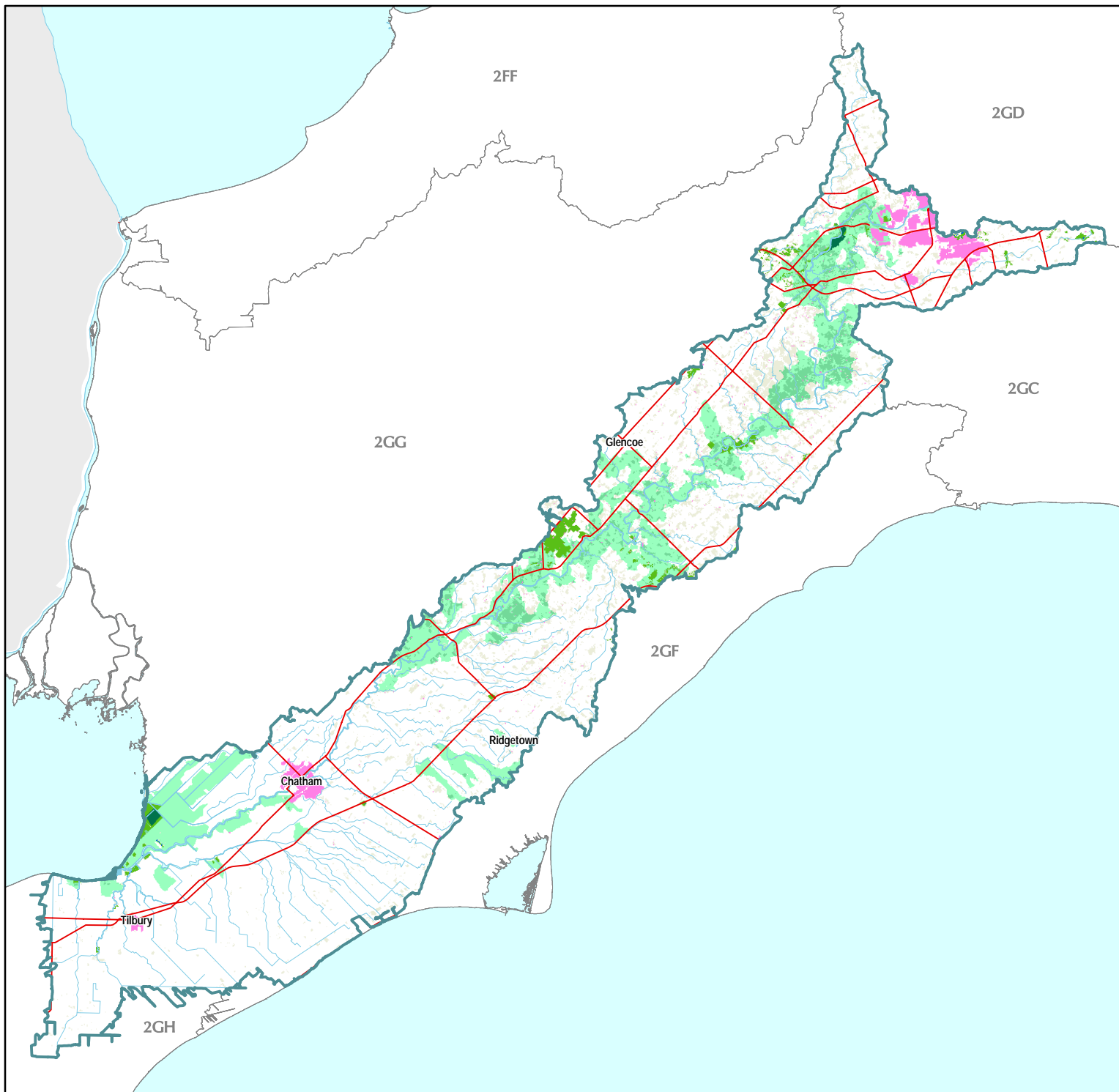
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

LOWER THAMES WATERSHED 2GE



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Documented extant significant species information for tertiary watershed 2GE

# pops in 2GE	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federal lands	% of pops in Parks and PAs	% of pops in PS LS-ANSIs	% of pops in CAs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species																
3	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	0	33	33	2	67	3	100	secondary
3	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S4B,SZN	NAR	END-R	SAR	33	0	33	0	1	33	3	100	secondary
3	<i>Rallus elegans</i>	King Rail	G4G5	S2B,SZN	END	END-R	SAR	33	0	33	33	2	67	2	67	secondary
5	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	0	40	0	4	80	5	100	secondary
1	<i>Seiurus motacilla</i>	Louisiana Waterthrush	G5	S3B,SZN	SC	SC	SAR	0	0	0	0	0	0	1	100	secondary
2	<i>Notropis photogenis</i>	Silver Shiner	G5	S2S3	SC	SC	SAR	0	0	0	0	0	0	2	100	3
1	<i>Macrhybopsis storeriana</i>	Silver Chub	G5	S2	SC	SC	SAR	0	0	0	0	0	0	1	100	secondary
1	<i>Ictiobus cyprinellus</i>	Bigmouth Buffalo	G5	SU	SC	SC	SAR	0	0	0	0	0	0	0	0.00	secondary
1	<i>Noturus stigmosus</i>	Northern Madtom	G3	S1S2	END	END	GRank SAR	0	0	0	0	0	0	1	100	4
8	<i>Ammocrypta pellucida</i>	Eastern Sand Darter	G3	S2	THR	THR	GRank SAR	0	0	0	0	0	0	7	88	2
3	<i>Etheostoma blennioides</i>	Greenside Darter	G5	S4	SC	SC	SAR	0	0	0	0	0	0	2	67	secondary
1	<i>Percina copelandi</i>	Channel Darter	G4	S2	THR	THR	SAR	0	0	0	0	0	0	1	100	3
3	<i>Clemmys guttata</i>	Spotted Turtle	G5	S3	END	SC	SAR	0	0	33	33	2	67	2	67	secondary
114	<i>Graptemys geographica</i>	Northern Map Turtle	G5	S3	SC	SC	SAR	4	4	12	3	19	17	89	78	secondary
1	<i>Sternotherus odoratus</i>	Stinkpot	G5	S3	THR	THR	SAR	0	0	0	0	0	0	0	0	secondary
2	<i>Apalone spinifera</i>	Spiny Softshell	G5	S3	THR	THR	SAR	0	0	0	50	1	50	2	100	secondary
1	<i>Regina septemvittata</i>	Queen Snake	G5	S2	THR	THR	SAR	0	0	0	0	0	0	1	100	secondary
1	<i>Epioblasma triquetra</i>	Snuffbox	G3	S1	END	END	GRank SAR	0	0	0	0	0	0	1	100	2
1	<i>Simpsonia ambigua</i>	Salamander Mussel	G3	S1	END	END	GRank SAR	0	0	0	0	0	0	1	100	2
2	<i>Villosa fabalis</i>	Rayed Bean	G1G2	S1	END	END	GRank SAR	0	0	0	0	0	0	2	100	all viable
2	<i>Symphyotrichum praealtum</i>	Willowleaf Aster	G5	S2	THR	THR	SAR	0	0	0	0	0	0	0	0	secondary
4	<i>Solidago riddellii</i>	Riddell's Goldenrod	G5	S3	SC	SC	SAR	0	0	0	0	0	0	1	25	secondary
1	<i>Quercus shumardii</i>	Shumard Oak	G5	S3	SC	SC	SAR	0	0	0	0	0	0	1	100	secondary
5	<i>Hibiscus moscheutos</i>	Swamp Rose-mallow	G5	S3	SC	SC	SAR	20	0	20	20	4	80	4	80	secondary
5	<i>Arisaema dracontium</i>	Green Dragon	G5	S3	SC	SC	SAR	0	0	20	0	1	20	3	60	secondary
3	<i>Carex lupuliformis</i>	False Hop Sedge	G4	S1	END	END-R	SAR	0	0	0	0	1	33	1	33	secondary
1	<i>Carex schweinitzii</i>	Schweinitz's Sedge	G3	S3			GRank	0	0	0	0	0	0	1	100	2

Ecological systems summary for tertiary watershed 2GE

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	231.63	0.08	4.06	1.75	92.44	39.91	53.00	22.88
Stream Systems	280258.75	98.84	2136.81	0.76	52159.31	18.61	12290.75	4.39
Lake Systems	431.56	0.15	13.69	3.17	21.69	5.03	21.69	5.03
Wetland Systems	2598.44	0.92	1990.88	76.62	2029.38	78.10	2029.38	78.10
Tertiary watershed	283559.81	100.00	4165.56	1.47	54322.94	19.16	14414.88	5.08

Ecological systems details for tertiary watershed 2GE

System Integer	# of patches in 2GE	Total area (ha) in 2GE	% of total area in 2GE	# of patches in federal lands	Total area (ha) in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	# of patches in CA lands	Total area (ha) in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																		
Coastal Systems																		
101	14	1.56	0.00											0.00	22	1.63	1.63	100
104	10	0.81	0.00											0.00	14	0.88	0.88	100
105	2	0.13	0.00											0.00	2	0.13	0.13	100
106	6	4.81	0.00							3	1.13	4	1.31	27.27	6	2.44	2.44	50.65
108	5	13.19	0.00									3	0.25	1.90	10	12.94	12.94	98.10
113	5	6.75	0.00					1	0.06			1	0.06	0.93	4	6.38	6.38	94.44
115	8	4.19	0.00					2	0.19			3	0.25	5.97	9	3.69	3.69	88.06
116	1	7.94	0.00									1	0.13	1.57	1	7.94	7.94	100
126	7	30.13	0.01											0.00	5	2.06	0.25	6.85
127	25	122.75	0.04							2	1.25	3	1.50	1.22	6	40.75	3.13	33.20
199	5	0.31	0.00											0.00				0.00
Stream Systems																		
202	16	516.38	0.18							1	0.75	1	0.75	0.15	4	76.38	12.56	14.79
203	25	489.56	0.17							1	4.44	1	4.44	0.91	14	109.81	45.19	22.43
204	5	0.38	0.00											0.00				0.00
205	15	1297.50	0.46					7	0.56	1	4.56	31	7.63	0.59	21	572.06	16.75	44.09
206	91	18127.13	6.39					5	88.94	3	65.88	127	162.63	0.90	96	3204.31	1379.06	17.68
207	6	93.88	0.03											0.00	4	56.56	12.69	60.25
208	14	206.25	0.07											0.00	4	155.75	11.19	75.52
209	6	41.50	0.01											0.00	6	41.44	5.50	99.85
210	114	24073.25	8.49					3	45.50	3	7.94	41	56.81	0.24	53	633.25	216.63	2.63
211	22	1008.75	0.36							2	0.25	4	0.63	0.06	16	62.25	11.50	6.17

System Integer	# of patches in 2GE	Total area (ha) in 2GE	% of total area in 2GE	# of patches in federal lands	Total area (ha) in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	# of patches in CA lands	Total area (ha) in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																		
Stream Systems continued																		
212	13	360.88	0.13											0.00	4	44.00	7.00	12.19
213	1	0.06	0.00											0.00				0.00
214	1	0.06	0.00											0.00				0.00
215	136	17514.31	6.18					8	649.44	1	66.88	189	681.31	3.89	165	2325.31	908.31	13.28
216	81	64852.31	22.87							11	49.81	221	76.81	0.12	283	1103.06	211.94	1.70
217	72	18119.75	6.39					1	1.94			34	6.38	0.04	48	1850.50	770.94	10.21
218	103	48004.38	16.93					3	0.38	3	57.31	52	63.63	0.13	73	581.31	113.75	1.21
219	24	15795.56	5.57							2	55.50	63	63.50	0.40	71	567.56	114.44	3.59
220	4	1315.38	0.46											0.00	3	865.56	40.13	65.80
222	10	14873.81	5.25									11	1.19	0.01	17	4081.94	123.88	27.44
223	1	1.25	0.00											0.00				0.00
224	10	627.88	0.22											0.00	8	627.00	40.00	99.86
225	2	290.94	0.10											0.00				0.00
231	5	2537.50	0.89	5	1.13			7	1.19			9	2.25	0.09	10	2537.13	4.50	99.99
232	4	399.19	0.14											0.00	3	370.00	108.94	92.69
238	1	4.75	0.00							1	1.56	1	1.56	32.89	1	1.56	1.56	32.89
239	3	179.94	0.06					1	3.38			10	4.19	2.33	3	179.94	27.63	100.00
243	38	7416.88	2.62					4	222.25			115	236.00	3.18	27	3998.19	1400.75	53.91
246	15	4634.31	1.63							1	0.63	1	0.63	0.01	8	3863.06	700.31	83.36
249	3	24.50	0.01											0.00				0.00
250	3	0.19	0.00											0.00				0.00
251	16	3494.19	1.23			1	205.63	1	39.44			42	43.88	1.26	9	819.19	288.50	23.44
252	31	24089.94	8.50					6	286.50			53	377.88	1.57	33	15023.44	3771.81	62.36
253	11	905.75	0.32											0.00	3	733.44	445.00	80.98
254	26	8930.13	3.15					1	262.81	9	81.50	15	344.75	3.86	32	7675.31	1500.31	85.95
Lake Systems																		
325	39	19.06	0.01					2	0.56			19	1.88	9.84	23	1.88	1.88	9.84
326	92	66.63	0.02					3	1.13	1	0.06	9	4.44	6.66	16	6.13	6.13	9.19
327	46	27.38	0.01					1	0.25	1	0.19	3	0.50	1.83	4	0.50	0.50	1.83
328	96	25.00	0.01									1	0.06	0.25	1	0.06	0.06	0.25
329	18	58.13	0.02											0.00	6	2.25	2.25	3.87
330	18	19.63	0.01											0.00				0.00
331	47	13.50	0.00											0.00				0.00
332	137	93.50	0.03					1	1.19	1	3.31	8	5.00	5.35	10	7.25	7.25	7.75
333	39	12.88	0.00							1	0.06	1	0.06	0.49	1	0.06		0.49
334	153	51.38	0.02											0.00	3	1.75	1.75	3.41
335	30	33.63	0.01											0.00	1	0.06	0.06	0.19

System Integer	# of patches in 2GE	Total area (ha) in 2GE	% of total area in 2GE	# of patches in federal lands	Total area (ha) in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	# of patches in CA lands	Total area (ha) in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																		
Lake Systems continued																		
336	36	10.88	0.00					1	0.31	1	1.44	2	1.75	16.09	2	1.75	1.75	16.09
Wetland Systems																		
401	89	179.31	0.06			1	0.69	28	56.25	4	7.00	72	149.13	83.16	91	150.44	150.44	83.90
402	43	215.69	0.08					7	28.63	1	15.25	39	182.81	84.76	42	186.94	186.94	86.67
404	2	553.81	0.20	1	186.31			4	525.75			3	534.31	96.48	2	553.88	553.88	100.00
405	235	612.44	0.22	3	1.56	6	9.13	16	10.56	12	37.13	125	325.44	53.14	159	330.13	330.13	53.90
406	118	1023.69	0.36	2	1.94	1	2.94	10	46.81	4	6.88	84	787.56	76.93	151	796.38	796.38	77.79
407	2	10.69	0.00							2	8.81	2	8.81	82.46	2	8.81	8.81	82.46
408	1	0.25	0.00									1	0.25	100.00	1	0.25	0.25	100.00
409	1	2.56	0.00							1	2.56	1	2.56	100.00	1	2.56	2.56	100.00
Non-Target Ecological Systems																		
Coastal Systems																		
121	3	25.88	0.01											0.00	1	13.06	13.06	50.48
122	1	0.06	0.00							1	0.06	1	0.06	100.00	1	0.06	0.06	100.00
124	7	13.13	0.00							1	0.50	1	0.50	3.81	1	0.50	0.50	3.81
Unclassified Ecological Systems																		
2	1	30.38	0.01											0.00				0.00
5	39	22.06	0.01					20	15.81			21	19.63	88.95	28	19.63	19.63	88.95
6	57	17.38	0.01					2	0.44			3	0.50	2.88	3	0.50	0.50	2.88

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Rondeau

Tertiary Watershed 2GF

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area:	77,581 hectares (191,702 acres)
Land Ownership:	Public Land ~ 5%, Private Land ~ 95%
Planning Authority:	60% Elgin County, 40% Chatham-Kent

General Description:

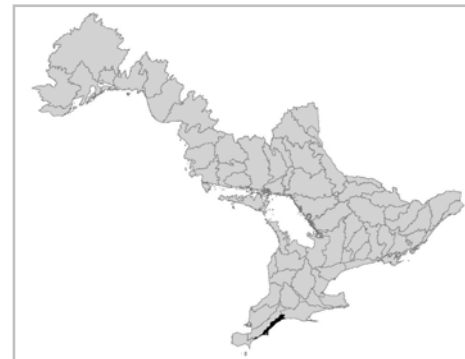
Tertiary watershed 2GF drains into northern Lake Erie. There are approximately 3,309 hectares of coastal areas, 72,387 hectares of stream systems, 92 hectares of lakes and 1,482 hectares of wetlands. This long, narrow watershed follows much of the Lake Erie coastline, stretching from the Rondeau Bay area to Port Stanley. Remaining natural cover is scattered throughout the region, including dense deciduous forest, mixed forest and a small amount of deciduous swamp.

Land Use:

Agriculture is the primary land use in the watershed; cropland covers almost the entire region. A few patches of developed land are also present and include the communities of Southwold, Dutton-Dunwich and Blenheim. Quarries dot the landscape around the Lake Erie shore, particularly near Rondeau Provincial Park.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2GF is 3,247 hectares, constituting approximately 4.2% of the watershed's total area. Almost half of these lands (1,466 ha) are located in provincially protected areas. There are approximately 549 hectares of protected coastal areas, 1,027 hectares of protected stream systems, two hectares of protected lakes and 1,391 hectares of protected wetlands.

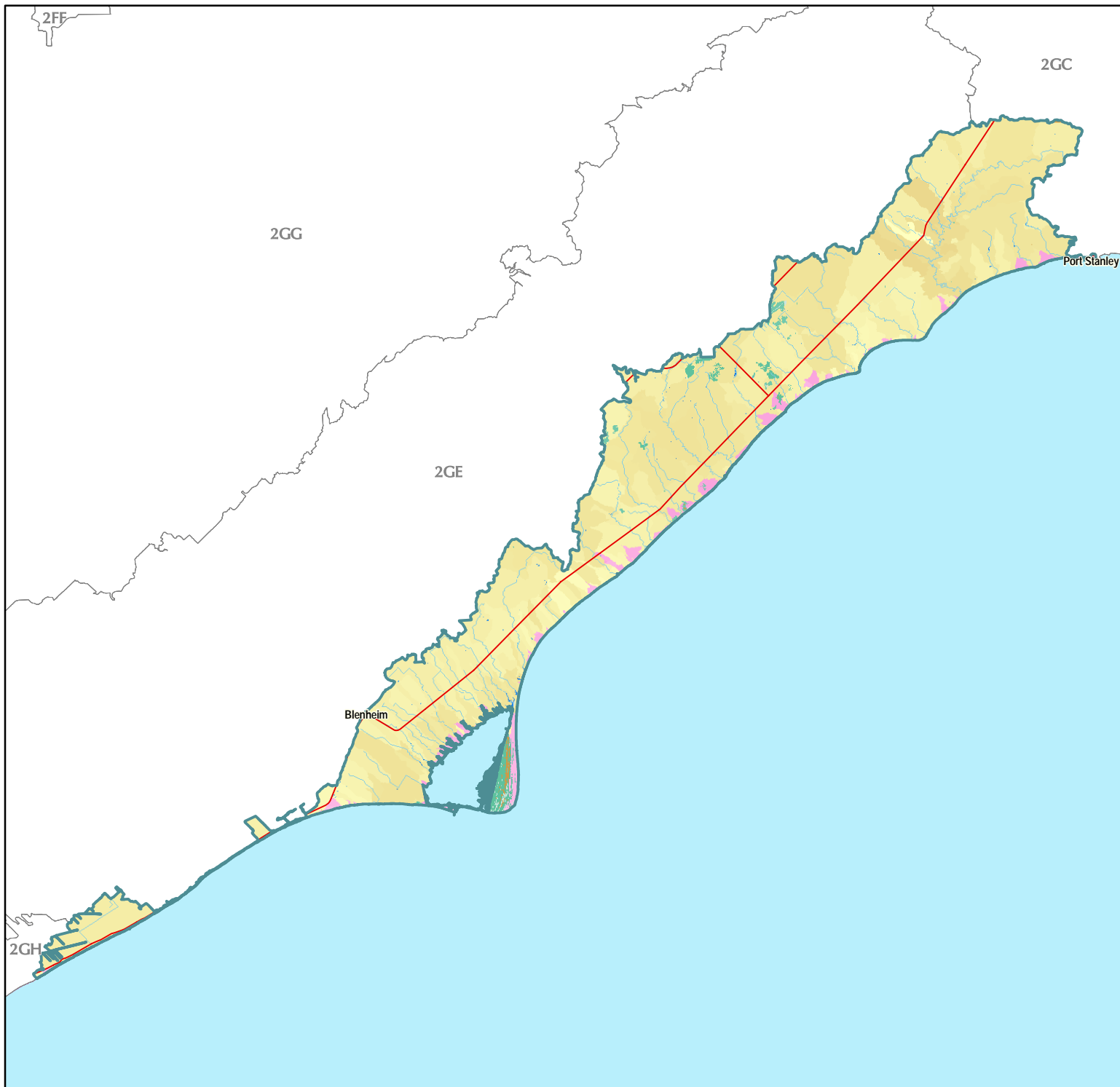


Species and Vegetation Community Targets:

Fifteen species targets occur in watershed 2GF. All of these species targets are secondary targets, including Spiny Softshell (*Apalone spinifera*), Green Dragon (*Arisaema dracontium*), Fowler's Toad (*Bufo fowleri*), Black Tern (*Chlidonias niger*), Spotted Turtle (*Clemmys guttata*), Northern Map Turtle (*Graptemys geographica*), Bald Eagle (*Haliaeetus leucocephalus*), Swamp Rose-mallow (*Hibiscus moscheutos*), Least Bittern (*Ixobrychus exilis*), American Water-willow (*Justicia americana*), Spotted Gar (*Lepisosteus oculatus*), Warmouth (*Lepomis gulosus*), Prothonotary Warbler (*Protonotaria citrea*), King Rail (*Rallus elegans*) and Louisiana Waterthrush (*Seiurus motacilla*). There are occurrences for 12 target species in conservation lands. Graminoid Coastal Meadow Marsh is the only rare vegetation community documented in this watershed.

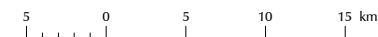
Conservation Blueprint:

The Conservation Blueprint includes 1,047 hectares of coastal areas, 25,988 hectares of stream systems, two hectares of lakes and 1,405 hectares of wetlands. The Conservation Blueprint also includes populations of Fowler's Toad and Bald Eagle in addition to those found in protected areas and conservation lands.

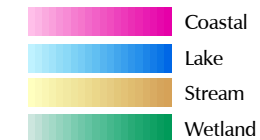


Great Lakes Conservation Blueprint for Biodiversity

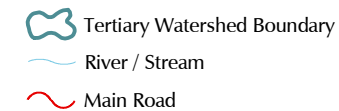
RONDEAU WATERSHED 2GF



Aquatic Ecological Systems



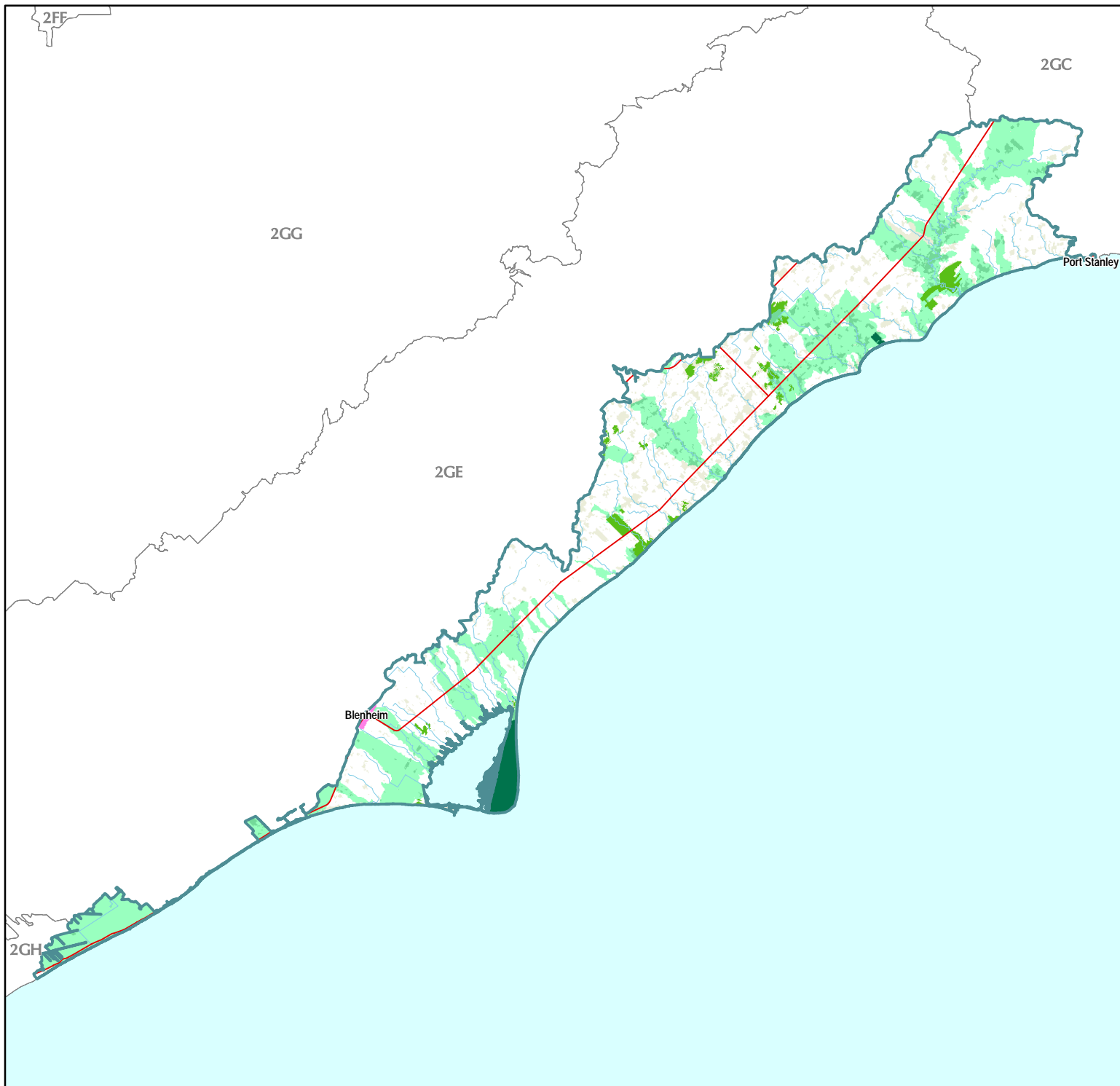
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

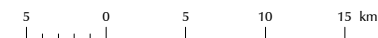
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Great Lakes Conservation Blueprint for Biodiversity

RONDEAU WATERSHED 2GF



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Documented extant vegetation communities and significant species information for tertiary watershed 2GF

# of pops in 2GF	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in Parks and PAs	% of pops in Parks and PAs	# of pops in PS LS-ANSIs	% of pops in PS LS-ANSIs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species																
5	<i>Bufo fowleri</i>	Fowler's Toad	G5	S2	THR	THR	SAR	1	20	0	0	2	40	4	80	secondary
1	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	1	100	0	0	1	100	1	100	secondary
4	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S4B,SZN	NAR	END-R	SAR	1	25	0	0	1	25	2	50	secondary
1	<i>Rallus elegans</i>	King Rail	G4G5	S2B,SZN	END	END-R	SAR	1	100	0	0	1	100	1	100	secondary
1	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	0	0	0	1	100	1	100	secondary
1	<i>Protonotaria citrea</i>	Prothonotary Warbler	G5	S1S2B,SZN	END	END-R	SAR	1	100	0	0	1	100	1	100	secondary
1	<i>Seiurus motacilla</i>	Louisiana Waterthrush	G5	S3B,SZN	SC	SC	SAR	1	100	0	0	1	100	1	100	secondary
1	<i>Lepisosteus oculatus</i>	Spotted Gar	G5	S2	THR	THR	SAR	0	0	0	0	0	0	0	0	secondary
1	<i>Lepomis gulosus</i>	Warmouth	G5	S1	SC	SC	SAR	1	100	0	0	1	100	1	100	secondary
4	<i>Clemmys guttata</i>	Spotted Turtle	G5	S3	END	SC	SAR	1	25	0	0	3	75	3	75	secondary
25	<i>Graptemys geographica</i>	Northern Map Turtle	G5	S3	SC	SC	SAR	20	80	0	0	20	80	20	80	secondary
2	<i>Apalone spinifera</i>	Spiny Softshell	G5	S3	THR	THR	SAR	1	50	0	0	1	50	1	50	secondary
1	<i>Justicia americana</i>	American Water-willow	G5	S1	THR	THR	SAR	1	100	0	0	1	100	1	100	secondary
2	<i>Hibiscus moscheutos</i>	Swamp Rose-mallow	G5	S3	SC	SC	SAR	1	50	0	0	2	100	2	100	secondary
1	<i>Arisaema dracontium</i>	Green Dragon	G5	S3	SC	SC	SAR	0	0	1	100	1	100	1	100	secondary
Communities																
1	Graminoid Coastal Meadow Marsh Type		G2?	S2			GRank	1	100	0	0	1	100	1	100	all viable

Ecological systems summary for tertiary watershed 2GF

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	3309.13	4.27	549.94	16.62	1047.94	31.67	883.19	26.69
Stream Systems	72387.00	93.30	1027.88	1.42	25988.88	35.90	3930.38	5.43
Lake Systems	92.81	0.12	2.13	2.29	2.13	2.29	2.13	2.29
Wetland Systems	1482.63	1.91	1391.31	93.84	1405.94	94.83	1405.94	94.83
Tertiary watershed	77581.06	100.00	3247.56	4.19	28721.19	37.02	6497.94	8.38

Ecological systems details for tertiary watershed 2GF

System Integer	# of patches in 2GF	Total area (ha) in 2GF	% of total area in 2GF	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) in CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																			
Coastal Systems																			
101	11	306.13	0.39	1	2.31	0.76	2	17.81	5.82			0.00	3	20.13	6.57	12	142.50	142.50	46.55
103	4	50.69	0.07			0.00	1	9.50	18.74			0.00	1	9.50	18.74	3	43.88	43.88	86.56
104	4	45.38	0.06			0.00			0.00			0.00			0.00	3	40.88	40.88	90.08
105	17	62.81	0.08			0.00			0.00			0.00	18	2.44	3.88	24	27.94	27.94	44.48
106	1	2.81	0.00			0.00			0.00			0.00			0.00	1	2.81	2.81	100.00
107	4	52.00	0.07			0.00			0.00			0.00			0.00	3	18.44	18.44	35.46
108	17	76.88	0.10	6	49.56	64.47	1	1.69	2.20			0.00	10	52.25	67.97	14	52.25	52.25	67.97
113	18	52.63	0.07			0.00			0.00			0.00	35	4.50	8.55	40	21.63	21.63	41.09
114	2	8.31	0.01			0.00			0.00			0.00	6	0.69	8.27	3	8.00	8.00	96.24
116	17	12.44	0.02	1	1.38	11.06			0.00			0.00	5	1.69	13.57	8	3.81	3.81	30.65
125	81	1061.63	1.37			0.00	6	8.44	0.79			0.00	36	12.38	1.17	64	136.75	30.94	12.88
126	31	380.63	0.49	3	4.31	1.13	6	63.63	16.72			0.00	9	67.94	17.85	16	148.75	92.75	39.08
127	83	766.50	0.99	7	299.50	39.07			0.00			0.00	23	301.19	39.29	30	323.06	320.13	42.15
199	141	348.88	0.45	9	68.50	19.63	1	4.06	1.16			0.00	13	72.75	20.85	19	72.75	72.75	20.85
Stream Systems																			
201	15	801.63	1.03			0.00			0.00			0.00			0.00	3	13.00	7.56	1.62
202	3	80.25	0.10			0.00			0.00			0.00			0.00	3	80.25	6.31	100.00
203	24	1117.06	1.44			0.00			0.00			0.00			0.00	4	835.38	89.25	74.78
204	34	606.56	0.78	1	59.00	9.73	2	9.81	1.62			0.00	3	68.81	11.34	5	282.44	112.38	46.56
205	2	54.94	0.07	1	16.94	30.83			0.00			0.00	1	16.94	30.83	2	54.94	28.88	100.00
206	25	6495.63	8.37			0.00	2	24.81	0.38			0.00	45	29.06	0.45	43	2783.00	262.25	42.84
207	3	137.06	0.18			0.00			0.00			0.00			0.00	3	137.06	4.63	100.00
208	28	4671.06	6.02			0.00	5	265.00	5.67			0.00	26	268.38	5.75	14	3360.44	543.63	71.94
209	27	1679.13	2.16			0.00	2	25.63	1.53			0.00	2	25.63	1.53	6	945.19	196.50	56.29
210	92	17886.75	23.06			0.00	10	128.13	0.72	2	17.19	0.10	64	150.38	0.84	70	406.44	186.56	2.27
211	1	2524.38	3.25			0.00			0.00			0.00			0.00	1	2524.75	26.06	100.00
212	4	77.69	0.10			0.00	1	7.56	9.73			0.00	1	7.56	9.73	2	29.63	14.13	38.13
213	18	3875.00	4.99			0.00	3	17.38	0.45			0.00	19	19.31	0.50	20	521.19	39.00	13.45
214	12	667.56	0.86			0.00			0.00	2	1.06	0.16	19	2.81	0.42	19	510.94	92.25	76.54
215	12	750.00	0.97			0.00			0.00			0.00	25	2.44	0.33	19	287.06	13.63	38.28
216	57	5458.44	7.04			0.00			0.00			0.00	38	5.56	0.10	51	3205.13	336.13	58.72
217	79	14052.56	18.11			0.00	5	152.75	1.09	1	7.44	0.05	152	174.69	1.24	150	2769.25	679.44	19.71
218	25	7167.88	9.24			0.00			0.00	1	2.50	0.03	5	2.81	0.04	5	3355.75	276.69	46.82
219	1	183.75	0.24			0.00			0.00			0.00			0.00	1	183.75	32.63	100.00
220	2	60.06	0.08			0.00	2	47.81	79.60			0.00	2	47.81	79.60	4	47.88	47.81	79.71
221	1	705.88	0.91			0.00	2	205.69	29.14			0.00	2	205.69	29.14	1	705.88	327.88	100.00

System Integer	# of patches in 2GF	Total area (ha) in 2GF	% of total area in 2GF	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) in CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																			
Stream Systems continued																			
222	9	1532.56	1.98			0.00			0.00			0.00			0.00	8	1532.44	358.44	99.99
225	5	1514.44	1.95			0.00			0.00			0.00			0.00	3	1417.13	248.38	93.57
252	8	0.69	0.00			0.00			0.00			0.00			0.00				0.00
Lake Systems																			
325	13	7.25	0.01			0.00			0.00			0.00	1	0.94	12.93	1	0.94	0.94	12.93
326	10	3.13	0.00			0.00			0.00			0.00			0.00				0.00
327	14	5.88	0.01			0.00			0.00			0.00			0.00				0.00
328	30	8.06	0.01			0.00			0.00			0.00			0.00				0.00
329	23	7.88	0.01			0.00			0.00			0.00			0.00				0.00
330	16	3.81	0.00			0.00			0.00			0.00			0.00				0.00
331	6	0.56	0.00			0.00			0.00			0.00	1	0.06	11.11	1	0.06	0.06	11.11
332	48	13.88	0.02			0.00			0.00			0.00			0.00				0.00
333	26	27.69	0.04			0.00			0.00			0.00	6	1.13	4.06	13	1.13	1.13	4.06
334	44	11.31	0.01			0.00			0.00			0.00			0.00				0.00
335	14	1.81	0.00			0.00			0.00			0.00			0.00				0.00
336	10	1.56	0.00			0.00			0.00			0.00			0.00				0.00
Wetland Systems																			
401	140	203.88	0.26	76	103.31	50.67			0.00			0.00	146	186.31	91.39	216	186.31	186.31	91.39
402	17	16.19	0.02			0.00			0.00			0.00	16	11.38	70.27	28	11.38	11.38	70.27
405	68	358.25	0.46	24	38.94	10.87	2	11.69	3.26			0.00	57	315.44	88.05	70	317.19	317.19	88.54
406	28	904.31	1.17	7	552.94	61.14			0.00			0.00	28	878.19	97.11	39	891.06	891.06	98.53
Non-Target Ecological Systems																			
Coastal Systems																			
121	7	19.44	0.03	1	0.88	4.50			0.00			0.00	7	1.44	7.40	8	1.44	1.44	7.40
123	3	13.44	0.02			0.00			0.00			0.00	2	0.13	0.93	2	0.13	0.13	0.93
124	23	48.56	0.06	1	1.94	3.99			0.00			0.00	11	2.94	6.05	13	2.94	2.94	6.05
Unclassified Ecological Systems																			
2	1	286.06	0.37			0.00			0.00			0.00			0.00				0.00
5	136	158.50	0.20	59	139.69	88.13			0.00			0.00	81	148.13	93.45	106	148.13	148.13	93.45
6	82	151.00	0.19	24	127.44	84.40			0.00			0.00	34	128.19	84.89	40	128.19	128.19	84.89

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and **Additional Designated Natural Heritage Areas** which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Sydenham

Tertiary Watershed 2GG

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area: 351,481 hectares (868,509 acres)

Land Ownership: Public Land ~ 1%
Private Land ~ 84%
First Nations Lands ~ 15%

Planning Authority: 61% Lambton County
20% Chatham-Kent
19% Middlesex County

General Description:

Tertiary watershed 2GG drains into Lake St. Clair. There are approximately 5,747 hectares of coastal areas, 336,832 hectares of stream systems, 868 hectares of lakes and 7,659 hectares of wetlands. The St. Clair River and part of Lake St. Clair form the western boundary of this watershed. Part of the Sydenham River is located here. Walpole Island is also located within this watershed. The remaining natural cover is scattered throughout the watershed, and includes dense deciduous forest and mixed forest, as well as deciduous swamp. Some marsh is also present in the Walpole Island area.

Land Use:

Agricultural activity dominates this watershed, covering almost the entire area. A few settlements are present including St. Clair and Wallaceburg.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2GG is 4,098 hectares, constituting approximately 1.2% of the watershed's total area. Almost half of these lands (1,734 ha) are Conservation Authority lands. There are about 25 hectares of protected coastal areas 2,234 hectares



of protected stream systems, 36 hectares of protected lakes and 1,756 hectares of protected wetlands.

Species and Vegetation Community Targets:

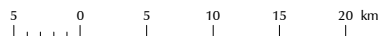
Thirty-four species targets are known to occur in watershed 2GG, including Skinners Agalinis (*Agalinis skinneriana*), Eastern Sand Darter (*Ammocrypta pellucida*), Northern Riffleshell (*Epioblasma torulosa rangiana*), Snuffbox (*Epioblasma triquetra*), Lake Chubsucker (*Erimyzon sucetta*), Pugnose Shiner (*Notropis anogenus*), Northern Madtom (*Noturus stigmosus*), Channel Darter (*Percina copelandi*), Eastern Prairie Fringed-orchid (*Platanthera leucophaea*), Salamander Mussel (*Simpsonaias ambigua*) and Rayed Bean (*Villosa fabalis*). There are no known occurrences of target species in conservation lands. There are no documented occurrences of rare vegetation communities in this watershed.

Conservation Blueprint:

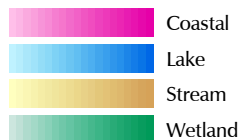
The Conservation Blueprint includes 2,029 hectares of coastal areas, 55,611 hectares of stream systems, 486 hectares of lakes and 7,124 hectares of wetlands. The Conservation Blueprint also includes species occurrences for all primary targets. The portfolio includes 16 out of the 23 secondary target species present in the watershed.

Great Lakes Conservation Blueprint for Biodiversity

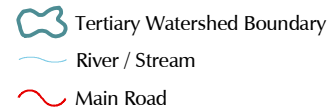
SYDENHAM WATERSHED 2GG



Aquatic Ecological Systems



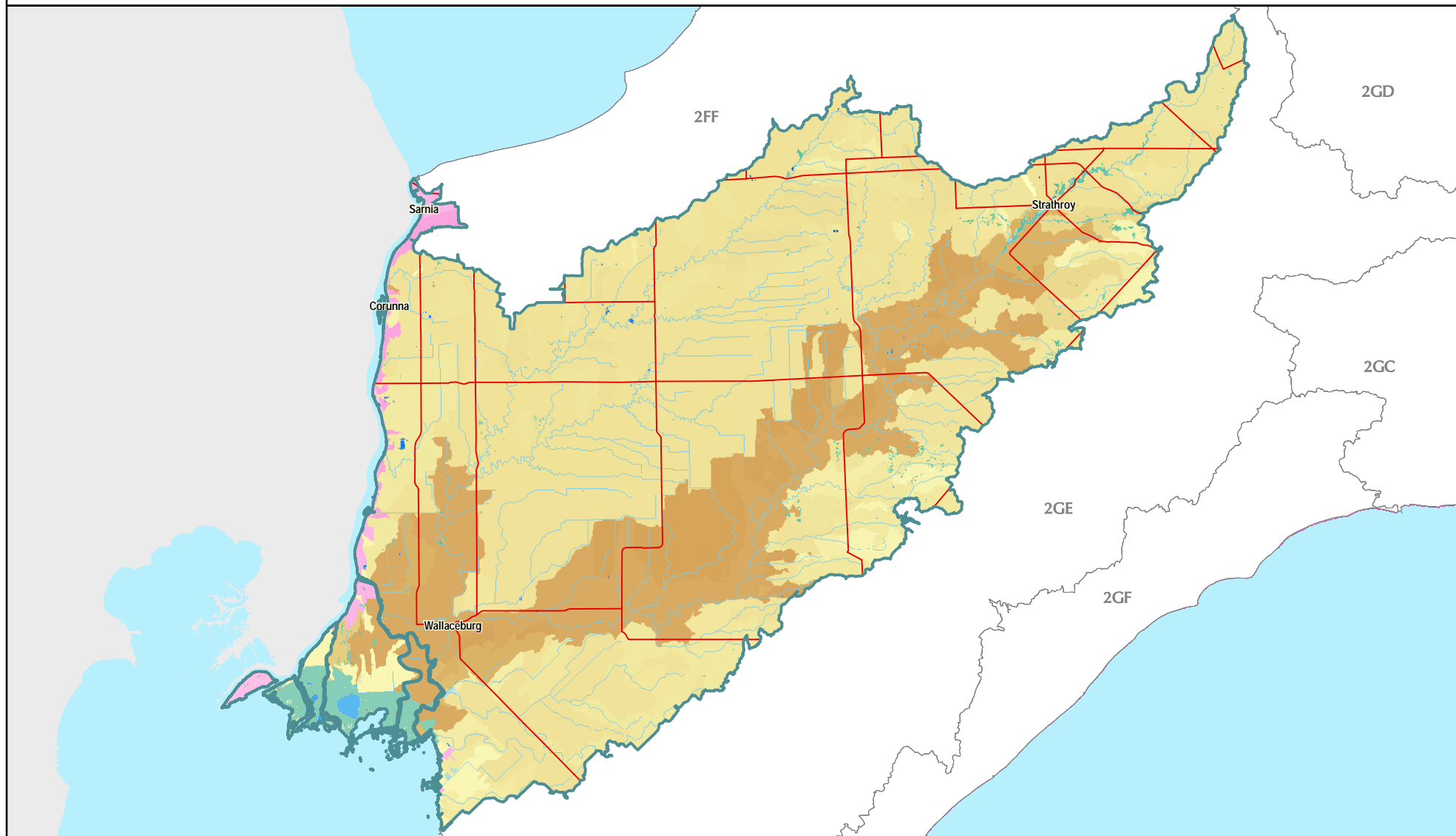
Other Information



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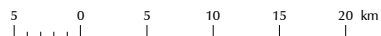
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Great Lakes Conservation Blueprint for Biodiversity

SYDENHAM WATERSHED 2GG



Aquatic Conservation Blueprint

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- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

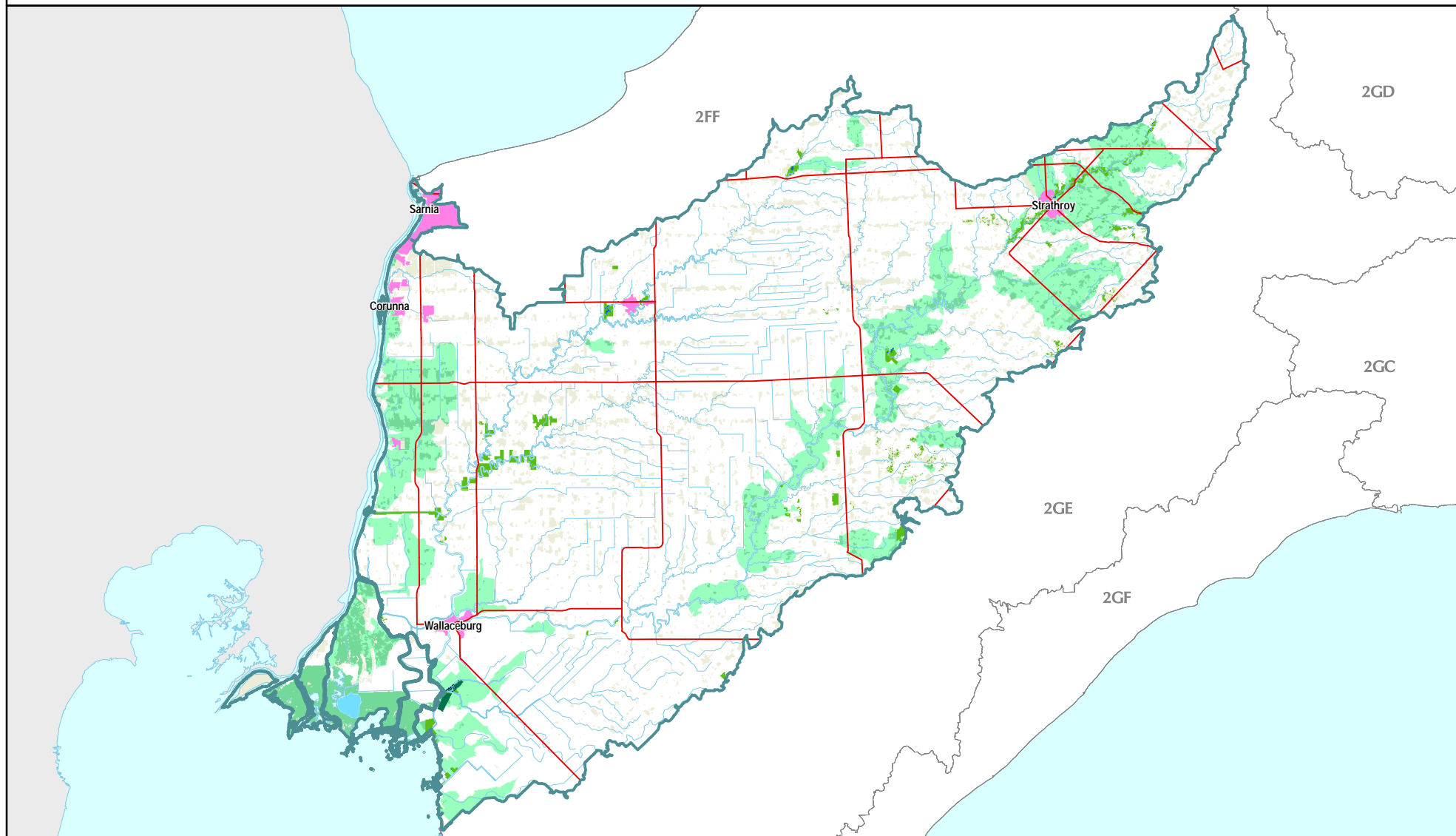
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Documented extant significant species information for tertiary watershed 2GG

# of pops in 2GG	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in PS LS-ANSIs	% of pops in PS LS-ANSIs	# of pops in CAs	% of pops in CAs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species																
2	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	1	50	0	0	1	50	2	100	secondary
5	<i>Rallus elegans</i>	King Rail	G4G5	S2B,SZN	END	END-R	SAR	10	20	0	0	1	20	5	100	secondary
14	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	1	7	0	0	1	7	8	57	secondary
1	<i>Ichthyomyzon fossor</i>	Northern Brook Lamprey	G4	S3	SC	SC	SAR	0	0	0	0	0	0	0	0	secondary
3	<i>Notropis anogenus</i>	Pugnose Shiner	G3	S2	END	END	GRank SAR	0	0	0	0	0	0	3	100	4
1	<i>Macrhybopsis storeriana</i>	Silver Chub	G5	S2	SC	SC	SAR	1	100	0	0	1	100	1	100	secondary
1	<i>Erimyzon sucetta</i>	Lake Chubsucker	G5	S2	THR	THR	SAR	0	0	0	0	0	0	1	100	3
3	<i>Ictiobus cyprinellus</i>	Bigmouth Buffalo	G5	SU	SC	SC	SAR	0	0	1	33	1	33	1	33	secondary
11	<i>Minytrema melanops</i>	Spotted Sucker	G5	S2	SC	SC	SAR	0	0	0	0	0	0	3	27	secondary
1	<i>Noturus stigmosus</i>	Northern Madtom	G3	S1S2	END	END	GRank SAR	0	0	0	0	0	0	1	100	4
10	<i>Fundulus notatus</i>	Blackstripe Topminnow	G5	S2	SC	SC	SAR	0	0	0	0	0	0	0	0	secondary
1	<i>Ammocrypta pellucida</i>	Eastern Sand Darter	G3	S2	THR	THR	GRank SAR	0	0	0	0	0	0	1	100	2
8	<i>Etheostoma blennioides</i>	Greenside Darter	G5	S4	SC	SC	SAR	0	0	0	0	0	0	2	25	secondary
1	<i>Percina copelandi</i>	Channel Darter	G4	S2	THR	THR	SAR	0	0	0	0	0	0	1	100	3
1	<i>Clemmys guttata</i>	Spotted Turtle	G5	S3	END	SC	SAR	0	0	0	0	0	0	1	100	secondary
37	<i>Graptemys geographica</i>	Northern Map Turtle	G5	S3	SC	SC	SAR	1	3	1	3	2	5	23	62	secondary
1	<i>Sternotherus odoratus</i>	Stinkpot	G5	S3	THR	THR	SAR	0	0	0	0	0	0	0	0	secondary
3	<i>Apalone spinifera</i>	Spiny Softshell	G5	S3	THR	THR	SAR	0	0	0	0	0	0	1	33	secondary
1	<i>Regina septemvittata</i>	Queen Snake	G5	S2	THR	THR	SAR	0	0	0	0	0	0	0	0	secondary
5	<i>Epioblasma torulosa rangiana</i>	Northern Riffleshell	G2T2	S1	END	END	GRank SAR	0	0	0	0	0	0	5	100	all viable
7	<i>Epioblasma triquetra</i>	Snuffbox	G3	S1	END	END	GRank SAR	0	0	0	0	0	0	6	86	2
1	<i>Lampsilis fasciola</i>	Wavy-rayed Lampmussel	G4	S1	END	END	SAR	0	0	0	0	0	0	0	0	secondary
8	<i>Simpsonaias ambigua</i>	Salamander Mussel	G3	S1	END	END	GRank SAR	0	0	0	0	0	0	6	75	2
5	<i>Villosa fabalis</i>	Rayed Bean	G1G2	S1	END	END	GRank SAR	0	0	0	0	0	0	5	100	all viable
1	<i>Symphytotrichum praealtum</i>	Willowleaf Aster	G5	S2	THR	THR	SAR	0	0	0	0	0	0	1	100	secondary
4	<i>Solidago riddellii</i>	Riddell's Goldenrod	G5	S3	SC	SC	SAR	0	0	0	0	0	0	1	25	secondary
8	<i>Quercus shumardii</i>	Shumard Oak	G5	S3	SC	SC	SAR	0	0	0	0	0	0	0	0	secondary
3	<i>Hibiscus moscheutos</i>	Swamp Rose-mallow	G5	S3	SC	SC	SAR	0	0	0	0	0	0	0	0	secondary
3	<i>Agalinis gattingeri</i>	Gattinger's Agalinis	G4	S2	END	END	SAR	0	0	0	0	0	0	2	67	secondary
3	<i>Agalinis skinneriana</i>	Skinner's Agalinis	G3	S1	END	END-R	GRank SAR	0	0	0	0	0	0	2	67	2

# of extant pops in 2GG	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in PS LS-ANSIs	% of pops in PS LS-ANSIs	# of pops in CAs	% of pops in CAs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species continued																
9	<i>Anisaema dracontium</i>	Green Dragon	G5	S3	SC	SC	SAR	0	0	3	33	4	44	6	67	secondary
1	<i>Carex lupuliformis</i>	False Hop Sedge	G4	S1	END	END-R	SAR	0	0	0	0	0	0	1	100	secondary
4	<i>Cypripedium candidum</i>	Small White Lady's-slipper	G4	S1	END	END-R	SAR	0	0	0	0	0	0	3	75	secondary
7	<i>Platanthera leucophaea</i>	Eastern Prairie Fringed-orchid	G2	S2	END	END	GRank SAR	0	0	0	0	0	0	7	100	all viable

Ecological systems summary for tertiary watershed 2GG

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	5747.38	1.64	25.06	0.44	2029.88	35.32	613.31	10.67
Stream Systems	336832.94	95.83	2234.88	0.66	55611.38	16.51	10840.50	3.22
Lake Systems	868.69	0.25	36.06	4.15	486.50	56.00	486.50	56.00
Wetland Systems	7659.88	2.18	1756.19	22.93	7124.56	93.01	7124.56	93.01
Tertiary watershed	351481.00	100.00	4098.69	1.17	65298.94	18.58	19111.25	5.44

Ecological systems details for tertiary watershed 2GG

System Integer	# of patches in 2GG	Total area (ha) of system in 2GG	% of total area of 2GG	# of patches in federal lands	Total area (ha) in federal lands	% of system in federal lands	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																			
Coastal Systems																			
105	4	8.50	0.00			0.00			0.00			0.00			0.00	4	3.50	3.50	41.18
108	27	42.19	0.01			0.00			0.00			0.00			0.00	3	3.50	3.50	8.30
113	111	216.38	0.06			0.00	8	0.81	0.38			0.00	8	0.81	0.38	17	15.75	15.75	7.28
115	139	292.25	0.08	2	0.75	0.26	9	0.81	0.28			0.00	30	4.50	1.54	44	6.50	6.50	2.22
116	20	67.69	0.02			0.00			0.00			0.00			0.00	3	41.63	41.63	61.50
125	27	1999.00	0.57			0.00			0.00	2	15.81	0.79	2	15.81	0.79	6	1284.69	105.81	64.27
127	20	1886.81	0.54			0.00			0.00			0.00			0.00	5	670.38	432.69	35.53
199	40	972.81	0.28			0.00			0.00			0.00			0.00				0.00

System Integer	# of patches in 2GG	Total area (ha) of system in 2GG	% of total area of 2GG	# of patches in federal lands	Total area (ha) in federal lands	% of system in federal lands	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																			
Stream Systems																			
203	2	111.69	0.03			0.00			0.00			0.00	5	0.50	0.45	2	111.69	20.06	100.00
205	170	4598.50	1.31			0.00	5	10.75	0.23			0.00	5	10.75	0.23	14	13.69	13.69	0.30
206	19	5727.38	1.63			0.00	3	49.06	0.86	1	6.88	0.12	98	64.25	1.12	113	2025.63	387.25	35.37
209	2	186.69	0.05			0.00			0.00			0.00			0.00	1	186.50	30.63	99.90
210	17	3020.56	0.86			0.00			0.00	2	12.94	0.43	30	17.38	0.58	38	629.44	54.44	20.84
211	14	4146.25	1.18	9	48.00	1.16	5	0.50	0.01	1	20.63	0.50	12	68.94	1.66	18	2663.25	89.19	64.23
212	7	104.81	0.03			0.00			0.00			0.00			0.00	2	6.44	0.13	6.14
213	4	2368.94	0.67			0.00			0.00			0.00			0.00	4	2282.63	624.31	96.36
214	18	6520.94	1.86			0.00	2	0.19	0.00			0.00	2	0.19	0.00	10	6516.50	1015.38	99.93
215	48	20477.94	5.83			0.00	8	58.00	0.28	3	23.81	0.12	230	107.38	0.52	263	1535.19	173.25	7.50
216	32	10824.25	3.08			0.00			0.00	1	5.31	0.05	71	13.06	0.12	79	1989.69	227.13	18.38
217	54	39497.94	11.24			0.00			0.00	6	69.19	0.18	40	73.00	0.18	41	933.00	196.38	2.36
218	66	84671.19	24.09	3	39.69	0.05	4	9.75	0.01	10	138.94	0.16	102	198.06	0.23	137	1401.88	275.13	1.66
219	30	52081.44	14.82			0.00	5	210.63	0.40	28	894.69	1.72	208	1124.19	2.16	85	7536.44	2095.88	14.47
220	20	11304.44	3.22			0.00			0.00	1	14.56	0.13	17	16.38	0.14	15	594.25	130.00	5.26
222	9	280.44	0.08			0.00			0.00	2	11.25	4.01	7	11.75	4.19	11	280.31	26.69	99.96
224	5	4998.13	1.42			0.00			0.00	3	0.38	0.01	108	11.63	0.23	7	4996.94	792.88	99.98
230	5	66.31	0.02			0.00			0.00			0.00	15	1.25	1.89	10	49.69	11.06	74.93
231	13	856.44	0.24			0.00			0.00			0.00			0.00	4	852.88	570.38	99.58
239	1	28.13	0.01			0.00			0.00			0.00			0.00				0.00
241	3	703.81	0.20	4	44.44	6.31			0.00			0.00	4	44.44	6.31	3	703.81	45.63	100.00
243	5	453.50	0.13			0.00	1	0.06	0.01			0.00	1	0.06	0.01	6	453.50	41.75	100.00
246	16	6244.63	1.78			0.00			0.00	4	20.19	0.32	83	28.81	0.46	83	157.69	41.00	2.53
247	1	1683.13	0.48			0.00			0.00	1	1.88	0.11	1	1.88	0.11	2	1683.13	55.69	100.00
249	4	98.00	0.03			0.00			0.00			0.00			0.00	3	90.00	21.50	91.84
250	72	50602.25	14.40	1	39.13	0.08	3	0.38	0.00	14	330.56	0.65	143	390.44	0.77	179	13272.75	3254.44	26.23
251	1	95.81	0.03			0.00			0.00	1	31.94	33.33	1	31.94	33.33	1	95.81	34.56	100.00
252	20	3157.69	0.90			0.00			0.00			0.00			0.00	3	659.25	46.38	20.88
253	13	5552.13	1.58			0.00			0.00	2	18.63	0.34	2	18.63	0.34	4	879.81	104.19	15.85
254	22	16189.69	4.61			0.00			0.00			0.00			0.00	10	3009.63	461.56	18.59
Lake Systems																			
322	2	440.75	0.13			0.00			0.00			0.00			0.00	1	440.69	440.69	99.99
325	66	16.06	0.00	5	0.69	4.28			0.00			0.00	5	0.69	4.28	12	0.75	0.69	4.67
326	152	138.31	0.04	8	2.31	1.67			0.00			0.00	11	2.50	1.81	33	8.94	8.94	6.46
328	68	37.63	0.01			0.00			0.00			0.00	1	0.19	0.50	1	0.19	0.19	0.50
329	54	30.13	0.01			0.00			0.00	2	0.31	1.04	2	0.31	1.04	2	0.31	0.31	1.04

System Integer	# of patches in 2GG	Total area (ha) of system in 2GG	% of total area of 2GG	# of patches in federal lands	Total area (ha) in federal lands	% of system in federal lands	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																			
Lake Systems continued																			
331	63	17.50	0.00			0.00			0.00	1	0.19	1.07	1	0.19	1.07	1	0.19	0.19	1.07
332	5	5.88	0.00			0.00			0.00			0.00			0.00				0.00
333	48	40.06	0.01			0.00			0.00	10	23.75	59.28	10	23.75	59.28	16	23.75	23.75	59.28
334	157	98.75	0.03			0.00			0.00			0.00	1	0.06	0.06	4	3.31	3.31	3.35
336	66	43.63	0.01			0.00			0.00	7	8.38	19.20	7	8.38	19.20	8	8.38	8.38	19.20
Wetland Systems																			
401	78	119.75	0.03	1	7.81	6.52	7	26.81	22.39	2	2.75	2.30	54	81.19	67.80	83	97.25	97.25	81.21
402	63	372.81	0.11	3	43.31	11.62	18	149.63	40.13	7	12.13	3.25	56	304.63	81.71	73	322.13	322.06	86.40
404	14	5418.31	1.54			0.00	3	147.25	2.72			0.00	3	147.25	2.72	41	5421.69	5421.69	100.00
405	327	614.88	0.17			0.00	18	28.25	4.59	9	16.75	2.72	187	317.75	51.68	207	325.50	325.50	52.94
406	116	1134.13	0.32			0.00	1	1.63	0.14	12	48.25	4.25	93	905.38	79.83	123	958.00	958.00	84.47
Non-Target Ecological Systems																			
Coastal Systems																			
121	12	106.00	0.03			0.00	1	0.13	0.12	1	3.81	3.60	2	3.94	3.71	2	3.94	3.94	3.71
124	33	155.75	0.04			0.00			0.00			0.00			0.00				0.00
Unclassified Ecological Systems																			
2	2	179.94	0.05			0.00			0.00			0.00			0.00				0.00
5	489	348.75	0.10			0.00	51	28.75	8.24			0.00	63	45.38	13.01	111	45.50	45.38	13.05
6	191	23.38	0.01	1	0.13	0.53	3	0.31	1.34	2	0.81	3.48	5	1.13	4.81	5	1.13	1.13	4.81

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Cedar Creek

Tertiary Watershed 2GH

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area:	177,990 hectares (739,813 acres)
Land Ownership:	Public Land ~ 1%, Private Land ~ 94%, National Parks ~ 5%
Planning Authority:	92% Essex County, 8% Chatham-Kent

General Description:

Tertiary watershed 2GH drains into the western end of Lake Erie and borders on Lake St. Clair. There are approximately 10,472 hectares of coastal areas, 163,000 hectares of stream systems, 494 hectares of lakes and 3,297 hectares of wetlands. 2GH is bounded to the north by Lake St. Clair, to the west by the Detroit River, and to the south by Lake Erie. The Point Pelee peninsula, Pelee Island, and the Canard River are contained within the watershed. Sparse and dense deciduous forest are scattered throughout the watershed. Wetlands in this watershed include a coastal marsh around Point Pelee, and a few deciduous swamps through the watershed.

Land Use:

Agriculture is the dominant land use throughout this watershed; cropland covers almost the entire area. A few pastures and abandoned fields are also present. Quarries are present in the areas around Point Pelee and the Detroit River. Major communities include Windsor, La Salle, Leamington and Essex.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2GH is 5,405 hectares, constituting approximately 3% of the watershed's total area. Over half of these lands (3,886 ha) are designated as provincially significant life science ANSIs, of which 456 hectares coincide with



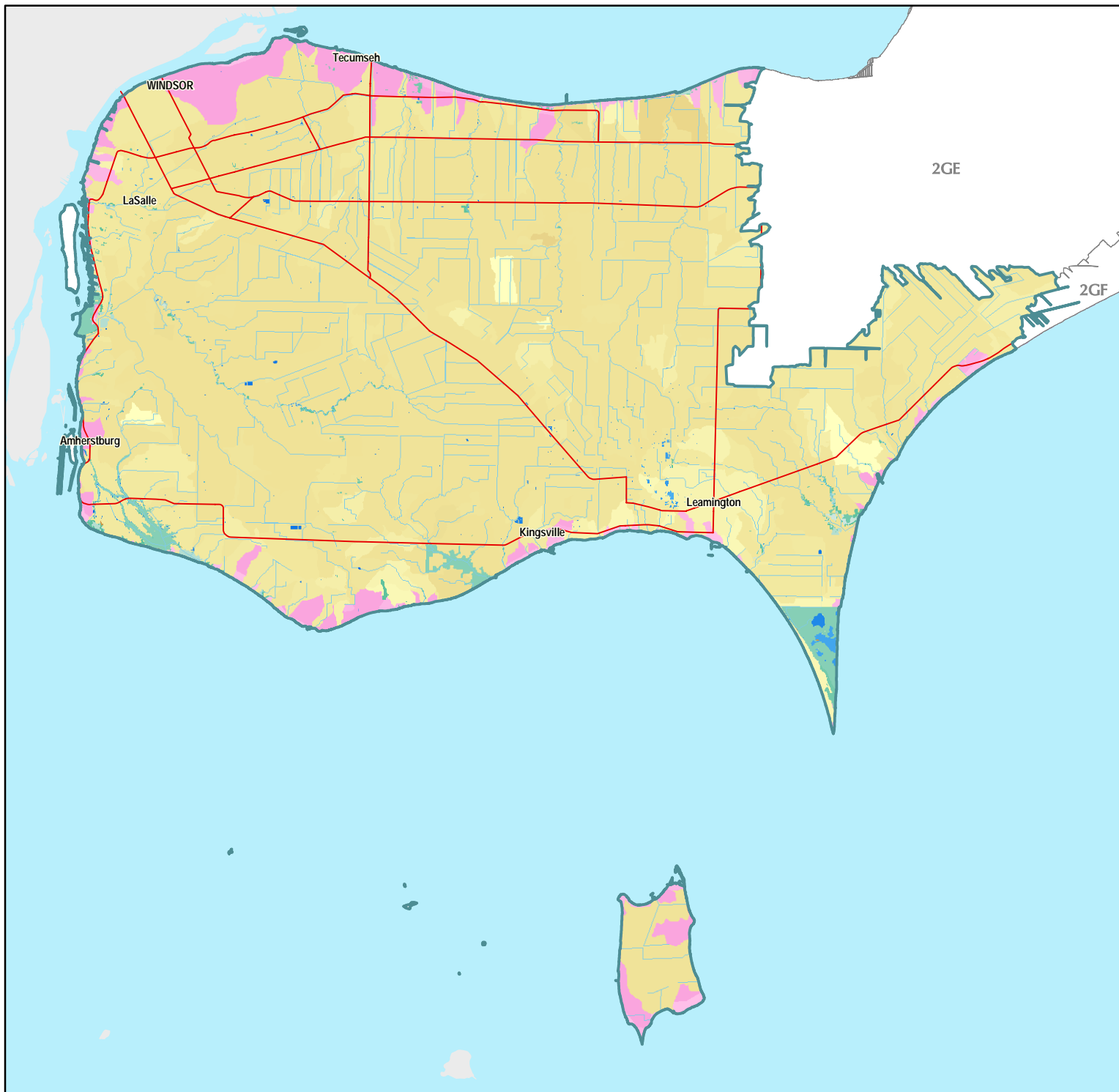
provincial parks. There are approximately 732 hectares of protected coastal areas, 17,468 hectares of protected stream systems, 237 hectares of protected lakes and 2,998 hectares of protected wetlands.

Species and Vegetation Community Targets:

Thirty-four species targets occur in watershed 2GH, including Spatterdock Darner (*Aeshna mutata*), Skinner's Agalinis (*Agalinis skinneriana*), Lake Erie Watersnake (*Nerodia sipedon insularum*), Northern Madtom (*Noturus stigmosus*), Channel Darter (*Percina copelandi*), Eastern Prairie Fringed-orchid (*Platanthera leucophaea*), Elusive Clubtail (*Stylurus notatus*), and Rayed Bean (*Villosa fabalis*). There are occurrences for five of the eight primary species targets in conservation lands. There are no documented occurrences of rare vegetation communities in this watershed.

Conservation Blueprint:

The Conservation Blueprint includes 5,361 hectares of coastal areas, 40,143 hectares of stream systems, 242 hectares of lakes and 3,020 hectares of wetlands. The Conservation Blueprint also includes occurrences for primary targets such as Spatterdock Darner, Skinner's Agalinis, Lake Erie Watersnake, Northern Madtom, Channel Darter, Eastern Prairie Fringed-orchid, Elusive Clubtail and Rayed Bean. In addition, the portfolio includes occurrences for 24 out of 26 secondary targets.

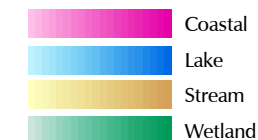


Great Lakes Conservation Blueprint for Biodiversity

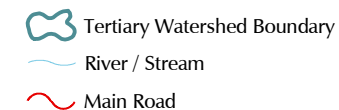
CEDAR CREEK WATERSHED 2GH



Aquatic Ecological Systems



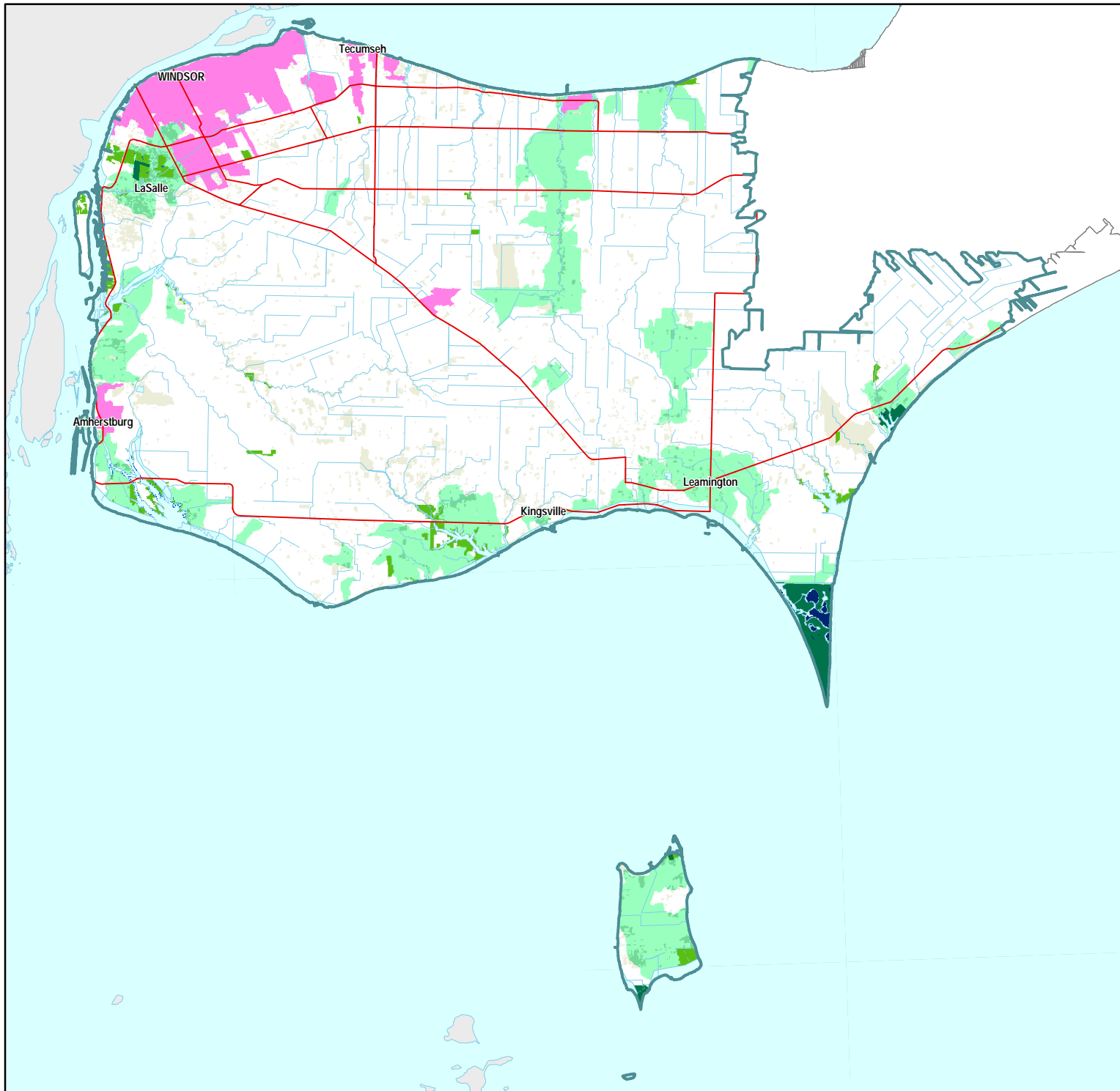
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity






CEDAR CREEK WATERSHED 2GH



Aquatic Conservation Blueprint

-  Parks and Protected Areas
-  Additional Designated Natural Heritage Areas
-  Priority Stewardship Areas - Natural
-  Priority Stewardship Areas - Non-Natural

Other Information

-  Tertiary Watershed Boundary
-  Lake / Water Course
-  Main Road
-  Urban Area
-  Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Documented extant significant species information for tertiary watershed 2GH

# of pops in 2GH	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federal lands	% of pops in Parks and PAs	% of pops in PS LS-ANSIs	% of pops in CAs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species																
1	<i>Ambystoma texanum</i>	Small-mouthed Salamander	G5	S1	END	THR	SAR	0	100	100	0	1	100	1	100	secondary
1	<i>Acris crepitans</i>	Northern Cricket Frog	G5	SH	END	END-R	SAR	100	100	100	0	1	100	1	100	secondary
1	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	100	0	100	0	1	100	1	100	secondary
5	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S4B,SZN	NAR	END-R	SAR	20	0	0	0	1	20	3	60	secondary
3	<i>Rallus elegans</i>	King Rail	G4G5	S2B,SZN	END	END-R	SAR	0	0	33	33	2	67	2	67	secondary
2	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	50	0	50	0	1	50	1	50	secondary
1	<i>Protonotaria citrea</i>	Prothonotary Warbler	G5	S1S2B,SZN	END	END-R	SAR	0	0	0	0	0	0	1	100	secondary
1	<i>Lepisosteus oculatus</i>	Spotted Gar	G5	S2	THR	THR	SAR	100	0	100	0	1	100	1	100	secondary
3	<i>Macrhybopsis storeriana</i>	Silver Chub	G5	S2	SC	SC	SAR	0	33	0	0	1	33	2	67	secondary
3	<i>Minytrema melanops</i>	Spotted Sucker	G5	S2	SC	SC	SAR	33	0	0	0	0	0	1	33	secondary
2	<i>Noturus stigmosus</i>	Northern Madtom	G3	S1S2	END	END	GRank SAR	0	0	0	0	0	0	2	100	4
1	<i>Lepomis gulosus</i>	Warmouth	G5	S1	SC	SC	SAR	0	0	100	0	1	100	1	100	secondary
1	<i>Etheostoma blennioides</i>	Greenside Darter	G5	S4	SC	SC	SAR	0	0	0	0	1	100	1	100	secondary
3	<i>Percina copelandi</i>	Channel Darter	G4	S2	THR	THR	SAR	0	0	0	0	0	0	3	100	3
7	<i>Clemmys guttata</i>	Spotted Turtle	G5	S3	END	SC	SAR	0	14	57	29	6	86	7	100	secondary
46	<i>Graptemys geographica</i>	Northern Map Turtle	G5	S3	SC	SC	SAR	0	13	67	4	37	80	41	89	secondary
7	<i>Sternotherus odoratus</i>	Stinkpot	G5	S3	THR	THR	SAR	0	0	57	0	5	71	6	86	secondary
3	<i>Apalone spinifera</i>	Spiny Softshell	G5	S3	THR	THR	SAR	0	0	33	0	3	100	3	100	secondary
9	<i>Nerodia sipedon insularum</i>	Lake Erie Watersnake	G5T2	S2	END	END-R	GRank SAR	0	22	33	0	3	33	5	56	4
1	<i>Regina septemvittata</i>	Queen Snake	G5	S2	THR	THR	SAR	0	0	0	0	0	0	0	0	secondary
3	<i>Aeshna mutata</i>	Spatterdock Darner	G3G4	S1			GRank	0	33	67	0	2	67	3	100	2
5	<i>Stylurus notatus</i>	Elusive Clubtail	G3	S2			GRank	0	0	20	0	1	20	2	40	2
1	<i>Villosa fabalis</i>	Rayed Bean	G1G2	S1	END	END	GRank SAR	0	100	100	0	1	100	1	100	all viable
1	<i>Justicia americana</i>	American Water-willow	G5	S1	THR	THR	SAR	100	0	100	0	1	100	1	100	secondary
5	<i>Symphotrichum praealtum</i>	Willowleaf Aster	G5	S2	THR	THR	SAR	0	0	20	0	1	20	2	40	secondary
7	<i>Solidago riddellii</i>	Riddell's Goldenrod	G5	S3	SC	SC	SAR	57	0	0	0	0	0	4	57	secondary
10	<i>Quercus shumardii</i>	Shumard Oak	G5	S3	SC	SC	SAR	10	0	0	10	1	10	2	20	secondary
4	<i>Ammannia robusta</i>	Scarlet Ammannia	G5	S1	END	END	SAR	50	25	25	0	2	50	3	75	secondary
22	<i>Hibiscus moscheutos</i>	Swamp Rose-mallow	G5	S3	SC	SC	SAR	5	14	27	9	10	45	14	64	secondary

# of extant pops in 2GH	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federal lands	% of pops in Parks and PAs	% of pops in PS LS-ANSIs	% of pops in CAs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species continued																
1	<i>Agalinis skinneriana</i>	Skinner's Agalinis	G3	S1	END	END-R	GRank SAR	0	0	0	0	0	0	1	100	2
5	<i>Arisaema dracontium</i>	Green Dragon	G5	S3	SC	SC	SAR	20	0	20	0	2	40	2	40	secondary
1	<i>Carex lupuliformis</i>	False Hop Sedge	G4	S1	END	END-R	SAR	100	0	0	0	0	0	0	0	secondary
7	<i>Camassia scilloides</i>	Wild Hyacinth	G4G5	S2	THR	THR	SAR	0	29	57	0	4	57	4	57	secondary
6	<i>Platanthera leucophaea</i>	Eastern Prairie Fringed-orchid	G2	S2	END	END	GRank SAR	0	17	33	0	2	33	6	100	all viable

Ecological systems summary for tertiary watershed 2GH

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	10472.69	5.88	531.44	5.07	991.19	9.46	669.63	6.39
Stream Systems	163000.50	91.58	1734.94	1.06	27404.50	16.81	4068.00	2.50
Lake Systems	494.31	0.28	228.81	46.29	230.00	46.53	230.00	46.53
Wetland Systems	3297.50	1.85	2782.25	84.37	2884.69	87.48	2884.69	87.48
Tertiary watershed	177990.63	100.00	5405.56	3.04	31724.13	17.82	7980.44	4.48

Ecological systems details for tertiary watershed 2GH

System Integer	# of patches in 2GH	Total area (ha) in 2GH	% of total area in 2GH	# of patches in federal lands	Total area (ha) in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	# of patches in all conservation lands	Total area (ha) in all Conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																		
Coastal Systems																		
101	3	9.56	0.01			2	1.81	2	2.00			2	2.00	20.92	3	9.56	9.00	100.00
103	1	48.31	0.03											0.00	1	48.31	48.31	100.00
104	7	20.38	0.01			1	5.56	2	6.69			2	6.69	32.82	3	11.31	11.31	55.52
105	28	148.50	0.08	1	2.50	1	0.19	3	4.44			5	4.75	3.20	8	14.31	13.50	9.64
106	8	23.13	0.01			1	5.06	6	10.94			6	10.94	47.30	6	15.75	15.75	68.11
107	10	6.25	0.00							1	2.06	8	2.50	40.00	8	5.94	5.94	95.00
108	94	155.50	0.09			9	7.81	3	11.00	1	0.38	35	16.38	10.53	50	24.38	24.38	15.68

System Integer	# of patches in 2GH	Total area (ha) in 2GH	% of total area in 2GH	# of patches in federal lands	Total area (ha) in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	# of patches in all conservation lands	Total area (ha) in all Conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																		
Coastal Systems continued																		
113	25	17.13	0.01			12	4.56	18	7.25			31	8.75	51.09	27	13.19	13.19	77.01
116	22	4.88	0.00							1	0.25	9	1.13	23.08	17	3.31	3.31	67.95
117	6	4.25	0.00	3	1.31			3	1.31			3	1.31	30.88	6	3.94	3.94	92.65
120	10	52.25	0.03	6	51.13	2	0.19	8	51.25			8	51.31	98.21	9	52.13	52.13	99.76
125	76	6839.50	3.84			6	51.19	9	132.88	2	3.25	21	139.69	2.04	21	247.50	155.81	3.62
126	5	320.81	0.18			1	2.00	1	2.00			1	2.00	0.62	3	231.88	8.94	72.28
127	85	1346.56	0.76	24	13.56	5	35.56	36	137.25	4	21.31	49	160.50	11.92	50	169.38	163.88	12.58
199	110	919.25	0.52			2	11.38	11	92.75	1	0.19	31	109.13	11.87	37	109.38	109.31	11.90
Stream Systems																		
201	1	32.69	0.02											0.00				0.00
203	7	607.31	0.34	1	0.06			4	9.50			16	13.44	2.21	6	496.94	46.63	81.83
204	2	277.75	0.16											0.00	2	277.75	23.50	100.00
205	30	654.44	0.37	27	270.50			27	278.13	1	0.25	27	279.50	42.71	36	622.38	280.31	95.10
206	8	3482.00	1.96					6	79.56			6	79.56	2.28	9	2836.13	251.44	81.45
208	15	208.19	0.12											0.00	16	190.50	28.31	91.50
209	12	246.25	0.14											0.00	3	129.88	7.19	52.74
210	62	5995.75	3.37											0.00	3	881.56	41.25	14.70
211	25	1702.81	0.96	1	10.31			1	0.38			26	13.25	0.78	20	474.94	29.94	27.89
212	1	6.31	0.00											0.00				0.00
213	17	4923.94	2.77					5	5.63	2	1.75	16	8.31	0.17	21	702.63	89.75	14.27
214	48	10324.94	5.80			2	4.13	64	202.75	9	54.88	177	257.88	2.50	158	1720.06	384.94	16.66
215	13	3971.44	2.23			1	61.06	3	217.88			11	220.63	5.56	11	854.31	321.88	21.51
216	52	16250.63	9.13			2	15.56	4	141.69	3	9.13	67	159.88	0.98	53	2414.06	773.13	14.86
217	51	10049.31	5.65			1	116.81	2	124.50	2	13.69	4	144.06	1.43	6	2945.38	345.50	29.31
218	63	68574.88	38.53			5	59.06	9	133.44	17	198.31	86	345.81	0.50	103	3389.25	699.44	4.94
219	18	31675.00	17.80					51	82.56	14	67.13	151	161.75	0.51	78	7010.44	592.63	22.13
220	6	499.94	0.28					2	25.06			5	25.75	5.15	6	471.50	92.06	94.31
221	6	786.19	0.44					4	0.75	1	0.19	12	1.81	0.23	8	779.38	19.44	99.13
226	1	1085.44	0.61							2	0.19	4	0.44	0.04	1	1085.44	17.00	100.00
227	2	99.19	0.06											0.00	1	99.13	0.81	99.94
Lake Systems																		
325	30	37.50	0.02	5	0.56			6	1.75			6	1.75	4.67	12	1.75	1.75	4.67
326	21	135.38	0.08	13	133.81			15	134.13			15	134.13	99.08	20	134.13	134.13	99.08
327	6	1.81	0.00											0.00				0.00

System Integer	# of patches in 2GH	Total area (ha) in 2GH	% of total area in 2GH	# of patches in federal lands	Total area (ha) in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	# of patches in all conservation lands	Total area (ha) in all Conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																		
Lake Systems continued																		
328	113	64.94	0.04	4	14.75			6	17.69			6	17.69	27.24	6	17.69	17.69	27.24
329	45	24.13	0.01					1	0.25			1	0.25	1.04	2	0.25	0.25	1.04
331	9	59.38	0.03	1	57.81			1	57.81			1	57.81	97.37	1	57.81	57.81	97.37
332	16	21.06	0.01											0.00				0.00
333	181	33.19	0.02					89	8.25	15	1.31	151	14.75	44.44	175	14.75	14.75	44.44
334	227	108.94	0.06			1	1.25	6	2.00			6	2.00	1.84	9	3.19	3.19	2.93
335	3	1.06	0.00											0.00				0.00
336	28	6.94	0.00					2	0.25			4	0.44	6.31	4	0.44	0.44	6.31
Wetland Systems																		
401	44	155.44	0.09			2	2.00	4	2.44	6	21.69	43	145.13	93.37	52	148.44	148.44	95.50
402	39	261.38	0.15			1	2.13	6	8.75	3	40.69	45	247.69	94.76	62	251.19	251.19	96.10
404	5	2074.81	1.17	1	845.69			4	1677.56	8	127.19	15	1998.50	96.32	8	2074.75	2074.75	100.00
405	191	373.25	0.21	2	93.88	2	0.56	27	116.75	18	36.44	108	188.38	50.47	127	191.31	191.31	51.26
406	117	432.63	0.24			3	3.00	15	49.50	12	18.56	80	202.56	46.82	95	219.00	219.00	50.62
Non-Target Ecological Systems																		
Coastal Systems																		
121	57	266.25	0.15			1	0.38	2	1.19			13	2.81	1.06	18	2.81	2.81	1.06
122	8	25.56	0.01							1	0.13	2	0.25	0.98	2	0.25	0.25	0.98
123	5	21.69	0.01									2	0.25	1.15	3	12.88	12.88	59.37
124	85	242.94	0.14	1	2.81	4	5.69	7	8.69			22	11.06	4.55	36	15.00	15.00	6.17
Unclassified Ecological Systems																		
2	4	1546.13	0.87							1	19.69	15	22.88	1.48	19	22.88	22.88	1.48
5	184	717.63	0.40	2	20.13	7	14.75	10	35.00	1	0.06	31	122.31	17.04	40	207.94	122.31	28.98
6	15	8.00	0.00	2	2.50			3	2.94			6	5.81	72.66	13	5.81	5.81	72.66

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Niagara

Tertiary Watershed 2HA

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area:	235,772 hectares (582,592 acres)
Land Ownership:	Public Land ~ 2% Private Land ~ 98%
Planning Authority:	73% Niagara Region 14% Haldimand-Norfolk 13% Hamilton-Wentworth

General Description:

Tertiary watershed 2HA drains into the southwestern end of Lake Ontario. There are approximately 3,955 hectares of coastal areas, 219,398 hectares of stream systems, 953 hectares of lakes and 8,089 hectares of wetlands. The watershed is bounded to the north by Lake Ontario, to the east by the Niagara River, and includes the Welland River. Remaining natural cover is dominated by dense deciduous forest. Dense coniferous forest, mixed forest and sparse deciduous forest are also scattered throughout. Wetlands include deciduous swamps and an open fen.

Land Use:

The majority of the watershed consists of cropland. A few pastures and abandoned fields are present as well. Large patches of developed land occur around St. Catharines, Niagara Falls, Stoney Creek and Welland. A few quarries are scattered throughout the watershed.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2HA is 11,902 hectares, constituting approximately 5% of the watershed's total area. Over one third of these lands (4,234 ha) is located in provincially significant life science ANSIs, of which 87 hectares coincide with



provincial parks and 203 hectares coincide with conservation reserves. Almost another quarter (2,634 ha) are Conservation Authority lands. There are about 147 hectares of protected coastal areas, 5,116 hectares of protected stream systems, 271 hectares of protected lakes and 6,295 hectares of protected wetlands.

Species and Vegetation Community Targets:

Fifteen species targets are known to occur in watershed 2HA. All are secondary targets including Spotted Turtle (*Clemmys guttata*), Northern Dusky Salamander (*Desmognathus fuscus*) and Bald Eagle (*Haliaeetus leucocephalus*). There are occurrences for seven of the 15 secondary target species in conservation lands. There is one documented occurrence of a high-quality Water Lily – Bullhead Lily Floating-leaved Shallow Aquatic vegetation community in this watershed and it occurs in a conservation land.

Conservation Blueprint:

The Conservation Blueprint includes 689 hectares of coastal areas, 52,071 hectares of stream systems, 617 hectares of lakes and 6,464 hectares of wetlands. The Conservation Blueprint also includes at least one species occurrence for 12 of the 15 species targets. The portfolio also includes the known occurrence of the target vegetation community in the watershed.

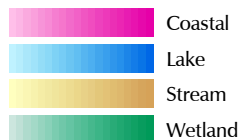
Great Lakes Conservation Blueprint for Biodiversity

NIAGARA WATERSHED 2HA

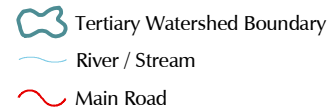
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Aquatic Ecological Systems



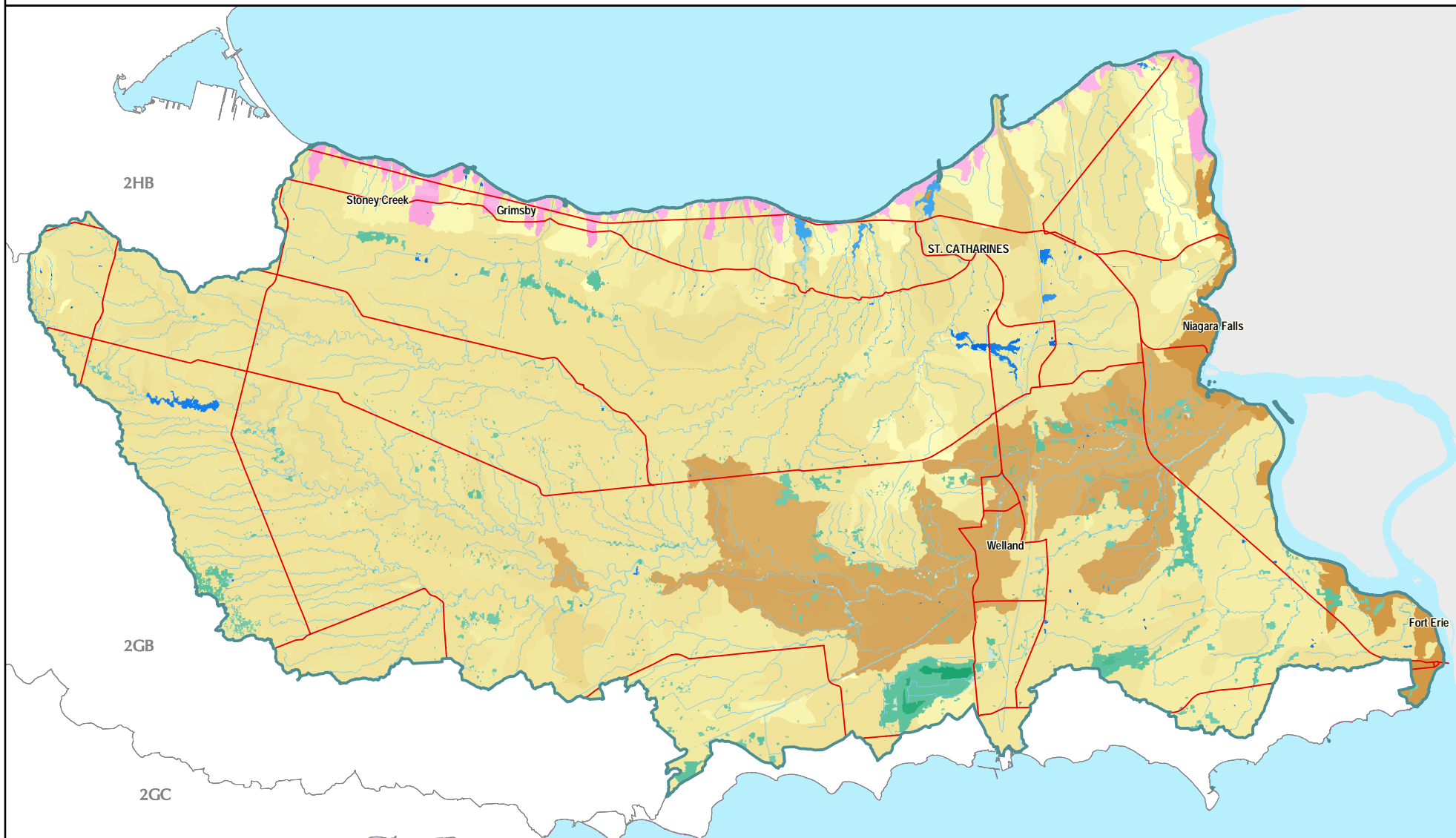
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

NIAGARA WATERSHED 2HA



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

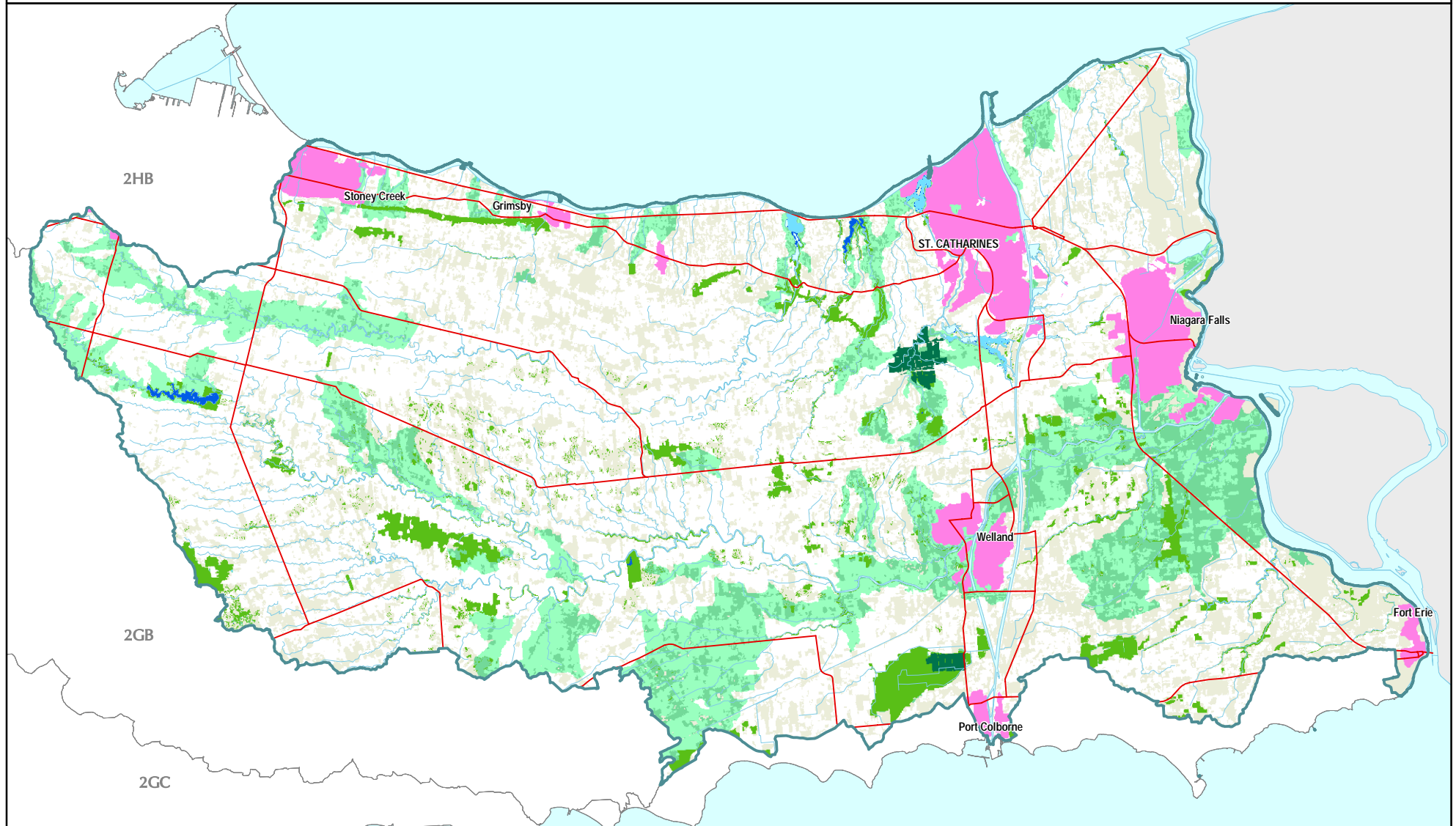
- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Documented extant vegetation communities and significant species information for tertiary watershed 2HA

# of pops in 2HA	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in PS LS-ANSIs	% of pops in PS LS-ANSIs	# of pops in CAs	% of pops in CAs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species																
2	<i>Ambystoma jeffersonianum</i>	Jefferson Salamander	G4	S2	THR	THR	SAR	1	50	0	0	1	50	2	100	secondary
3	<i>Desmognathus fuscus</i>	Northern Dusky Salamander	G5	S1	NAR	END-R	SAR	1	33	0	0	1	33	1	33	secondary
1	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	0	1	100	1	100	1	100	secondary
1	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S4B,SZN	NAR	END-R	SAR	1	100	0	0	1	100	1	100	secondary
1	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	0	0	0	0	0	1	100	secondary
2	<i>Seiurus motacilla</i>	Louisiana Waterthrush	G5	S3B,SZN	SC	SC	SAR	1	50	0	0	1	50	1	50	secondary
1	<i>Ictiobus cyprinellus</i>	Bigmouth Buffalo	G5	SU	SC	SC	SAR	0	0	0	0	0	0	1	100	secondary
1	<i>Clemmys guttata</i>	Spotted Turtle	G5	S3	END	SC	SAR	0	0	1	100	1	100	1	100	secondary
1	<i>Glyptemys insculpta</i>	Wood Turtle	G4	S2	SC	END	SAR	0	0	0	0	0	0	0	0	secondary
2	<i>Graptemys geographica</i>	Northern Map Turtle	G5	S3	SC	SC	SAR	0	0	0	0	0	0	1	50	secondary
2	<i>Sternotherus odoratus</i>	Stinkpot	G5	S3	THR	THR	SAR	0	0	0	0	0	0	0	0	secondary
1	<i>Justicia americana</i>	American Water-willow	G5	S1	THR	THR	SAR	0	0	0	0	0	0	0	0	secondary
1	<i>Quercus shumardii</i>	Shumard Oak	G5	S3	SC	SC	SAR	0	0	0	0	0	0	1	100	secondary
2	<i>Hibiscus moscheutos</i>	Swamp Rose-mallow	G5	S3	SC	SC	SAR	0	0	0	0	0	0	1	50	secondary
6	<i>Arisaema dracontium</i>	Green Dragon	G5	S3	SC	SC	SAR	1	17	1	17	2	33	5	83	secondary
Communities																
1	Water Lily - Bullhead Lily Floating-leaved Shallow Aquatic Type		G5	S5			high quality	1	100	0	0	1	100	1	100	secondary

Ecological systems summary for tertiary watershed 2HA

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	3955.19	1.68	147.31	3.72	698.75	17.67	307.75	7.78
Stream Systems	219398.44	93.05	5116.94	2.33	52071.06	23.73	20455.31	9.32
Lake Systems	953.81	0.40	271.56	28.47	617.31	64.72	617.31	64.72
Wetland Systems	8089.56	3.43	6295.44	77.82	6464.00	79.91	6464.00	79.91
Tertiary watershed	235772.88	100.00	11902.25	5.05	59922.06	25.42	27915.38	11.84

Ecological systems details for tertiary watershed 2HA

System Integer	# of patches in 2HA	Total area (ha) in 2HA	% of total area in 2HA	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																			
Coastal Systems																			
101	9	37.06	0.02			0.00	1	1.75	4.72			0.00	3	2.06	5.56	4	6.25	6.25	16.86
103	3	28.00	0.01			0.00			0.00			0.00			0.00	4	28.13	28.13	100.00
104	12	74.19	0.03			0.00	5	17.25	23.25			0.00	5	17.25	23.25	8	23.88	23.88	32.18
105	15	75.69	0.03			0.00	2	3.56	4.71			0.00	2	3.56	4.71	4	16.06	16.06	21.22
107	3	17.63	0.01			0.00	3	2.44	13.83			0.00	3	2.44	13.83	4	17.63	17.63	100.00
108	30	68.13	0.03			0.00	5	2.38	3.49	1	0.13	0.18	6	2.50	3.67	6	11.06	11.06	16.24
116	1	3.88	0.00			0.00			0.00			0.00			0.00	1	3.88	3.88	100.00
125	46	1878.63	0.80			0.00	4	92.31	4.91	4	30.94	1.65	5	102.13	5.44	10	395.75	166.31	21.07
127	87	1401.50	0.59			0.00	7	10.56	0.75			0.00	14	11.94	0.85	11	190.69	29.13	13.61
199	20	39.56	0.02			0.00			0.00			0.00			0.00				0.00
Stream Systems																			
201	2	386.19	0.16			0.00	3	21.31	5.52			0.00	3	21.31	5.52	2	386.19	117.25	100.00
202	6	458.88	0.19			0.00	7	38.63	8.42	2	0.25	0.05	16	40.81	8.89	4	417.19	212.13	90.92
203	15	4679.44	1.98			0.00	4	144.50	3.09	4	10.94	0.23	4	147.25	3.15	12	810.13	368.75	17.31
204	2	248.44	0.11			0.00			0.00			0.00			0.00	2	248.44	120.19	100.00
206	21	4243.94	1.80	8	61.31	1.44	13	149.88	3.53	6	40.81	0.96	115	238.63	5.62	129	776.94	512.81	18.31
207	5	178.63	0.08			0.00	5	34.38	19.24			0.00	11	36.63	20.50	5	178.63	108.56	100.00
208	4	979.38	0.42			0.00	1	60.25	6.15	2	16.44	1.68	1	60.25	6.15	3	928.63	224.38	94.82
209	8	695.94	0.30	1	3.06	0.44	1	9.63	1.38	1	0.19	0.03	18	14.25	2.05	9	373.06	140.38	53.61
210	10	2822.13	1.20			0.00	5	168.06	5.96	2	122.44	4.34	79	189.19	6.70	7	1909.31	715.38	67.66
212	24	10805.75	4.58	4	187.44	1.73	5	179.44	1.66	10	116.44	1.08	301	445.63	4.12	367	844.94	552.56	7.82
213	42	8803.19	3.73			0.00	34	70.88	0.81	24	57.56	0.65	221	139.94	1.59	166	5957.25	3686.13	67.67
214	10	1365.63	0.58			0.00			0.00	3	24.00	1.76	48	31.38	2.30	50	430.94	250.75	31.56
215	36	6743.25	2.86			0.00	7	42.50	0.63			0.00	103	55.38	0.82	20	6352.25	1760.25	94.20
216	9	2713.69	1.15			0.00	2	45.06	1.66			0.00	6	45.38	1.67	14	861.63	173.75	31.75
217	140	63430.44	26.90	11	396.19	0.62	66	721.19	1.14	60	417.50	0.66	1672	1628.31	2.57	2078	1920.25	1719.63	3.03
218	112	41109.44	17.44	3	1.06	0.00	71	124.25	0.30	14	86.81	0.21	1432	379.56	0.92	1767	379.63	379.63	0.92
219	29	24641.50	10.45			0.00	40	486.63	1.97	65	266.44	1.08	674	765.69	3.11	530	8588.44	2389.25	34.85
220	28	12721.69	5.40			0.00	6	450.81	3.54	6	34.25	0.27	507	560.13	4.40	761	1679.00	772.00	13.20
221	3	552.31	0.23			0.00	13	36.13	6.54	4	12.38	2.24	15	48.31	8.75	5	552.25	214.69	99.99
223	4	256.44	0.11			0.00			0.00			0.00	1	0.06	0.02	3	254.56	15.31	99.27
224	5	775.31	0.33			0.00			0.00			0.00	53	8.00	1.03	10	763.69	95.00	98.50
225	1	1036.56	0.44			0.00			0.00			0.00	2	0.13	0.01	2	1036.56	329.06	100.00
226	1	0.13	0.00			0.00			0.00			0.00			0.00	2	0.13		100.00
227	1	12.75	0.01			0.00			0.00	2	0.56	4.41	2	0.56	4.41	3	0.56	0.56	4.41
228	1	0.19	0.00			0.00			0.00	1	0.19	100.00	1	0.19	100.00	1	0.19	0.19	100.00

System Integer	# of patches in 2HA	Total area (ha) in 2HA	% of total area in 2HA	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																			
Stream Systems continued																			
230	1	1141.13	0.48			0.00			0.00			0.00			0.00	1	1141.13	88.75	100.00
249	15	10024.94	4.25			0.00	1	0.19	0.00	1	0.19	0.00	385	75.69	0.75	284	6775.13	2523.31	67.58
251	36	5494.50	2.33			0.00			0.00	1	4.44	0.08	366	72.50	1.32	18	5488.19	1658.56	99.89
252	2	72.25	0.03			0.00	1	0.06	0.09			0.00	1	0.06	0.09				0.00
253	14	9440.38	4.00			0.00	5	1.50	0.02			0.00	438	74.13	0.79	484	2059.75	968.81	21.82
254	8	1012.88	0.43			0.00	4	10.06	0.99			0.00	110	26.13	2.58	14	944.63	345.81	93.26
Lake Systems																			
325	4	0.69	0.00			0.00			0.00			0.00			0.00				0.00
326	11	287.00	0.12			0.00	7	77.94	27.16			0.00	51	82.63	28.79	13	287.00	287.00	100.00
328	16	11.88	0.01			0.00			0.00			0.00			0.00				0.00
329	8	34.13	0.01			0.00			0.00			0.00	3	0.19	0.55	3	0.19	0.19	0.55
331	6	12.25	0.01			0.00			0.00			0.00	1	0.06	0.51	1	0.06	0.06	0.51
332	1	0.88	0.00			0.00			0.00			0.00			0.00				0.00
333	8	406.44	0.17			0.00			0.00	1	176.50	43.43	33	179.44	44.15	13	314.19	314.19	77.30
334	146	116.13	0.05			0.00	2	0.25	0.22	6	7.81	6.73	10	8.19	7.05	14	12.25	12.25	10.55
336	41	84.44	0.04			0.00			0.00	1	0.06	0.07	11	1.06	1.26	15	3.63	3.63	4.29
Wetland Systems																			
401	382	402.19	0.17	1	0.38	0.09	12	6.88	1.71	40	40.94	10.18	385	327.00	81.31	484	328.94	328.94	81.79
402	446	983.94	0.42	3	9.00	0.91	21	153.94	15.65	30	49.94	5.08	421	788.00	80.09	722	798.19	798.19	81.12
405	844	2125.19	0.90			0.00	105	158.56	7.46	22	31.38	1.48	713	1418.69	66.76	851	1441.94	1442.00	67.85
406	410	4286.06	1.82	6	105.38	2.46	32	707.38	16.50	19	972.50	22.69	362	3502.31	81.71	567	3635.50	3635.50	84.82
407	2	33.69	0.01			0.00	1	0.06	0.19			0.00	7	0.94	2.78	8	0.94	0.94	2.78
409	2	89.00	0.04			0.00			0.00	2	78.63	88.34	2	89.00	100.00	2	89.00	89.00	100.00
410	1	169.50	0.07	1	129.75	76.55	1	130.25	76.84	1	26.88	15.86	1	169.50	100.00	1	169.50	169.50	100.00
Non-Target Ecological Systems																			
Coastal Systems																			
121	17	180.13	0.08			0.00	2	4.94	2.74			0.00	3	5.13	2.85	4	5.13	5.13	2.85
122	2	24.88	0.01			0.00			0.00			0.00	1	0.19	0.75	2	0.19	0.19	0.75
123	6	19.44	0.01			0.00			0.00			0.00	1	0.06	0.32	1	0.06	0.06	0.32
124	28	106.50	0.05			0.00			0.00			0.00	1	0.06	0.06	1	0.06	0.06	0.06
Unclassified Ecological Systems																			
2	17	2551.19	1.08			0.00	7	4.69	0.18	5	6.81	0.27	12	11.50	0.45	15	11.50	11.50	0.45
5	55	22.69	0.01			0.00	4	18.94	83.47			0.00	5	19.00	83.75	5	19.00	19.00	83.75
6	134	3353.19	1.42			0.00	9	44.75	1.33			0.00	46	52.00	1.55	60	51.94	51.94	1.55

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and **Additional Designated Natural Heritage Areas** which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands)..

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Credit River – 16 Mile Creek

Tertiary Watershed 2HB

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area:	230,222 hectares (568,878 acres)
Land Ownership:	Public Land ~ 10% Private Land ~ 90%
Planning Authority:	39% Halton Region, 26% Peel Region, 23% Hamilton-Wentworth, 9% Wellington County, 3% Dufferin County

General Description:

Tertiary watershed 2HB drains into the northwestern corner of Lake Ontario and includes a portion of the Credit River. There are approximately 9,617 hectares of coastal areas, 205,177 hectares of stream systems, 787 hectares of lakes and 14,486 hectares of wetlands. The watershed contains Lake Ontario coastline from Hamilton to Port Credit. Remaining natural cover is dominated by dense deciduous forest, with smaller areas of mixed forest, deciduous swamp and coniferous swamp. A patch of alvar is present in the southwest.

Land Use:

The dominant land use is agriculture. The majority of the watershed is covered by cropland, with small amounts of pasture and abandoned fields. There is quarrying activity on the Niagara Escarpment. Extensive areas of urban development are concentrated around Lake Ontario and include the cities of Hamilton, Burlington, Oakville, Mississauga, Milton, Halton Hills and Orangeville.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2HB is 24,645 hectares, constituting approximately 11% of the watershed's total area. Nearly one half of these lands (10,489 hectares) are located in provincially significant life science ANSIs, of which 173 hectares coincide with provincial parks. Almost another quarter (5,268 ha) are Conservation



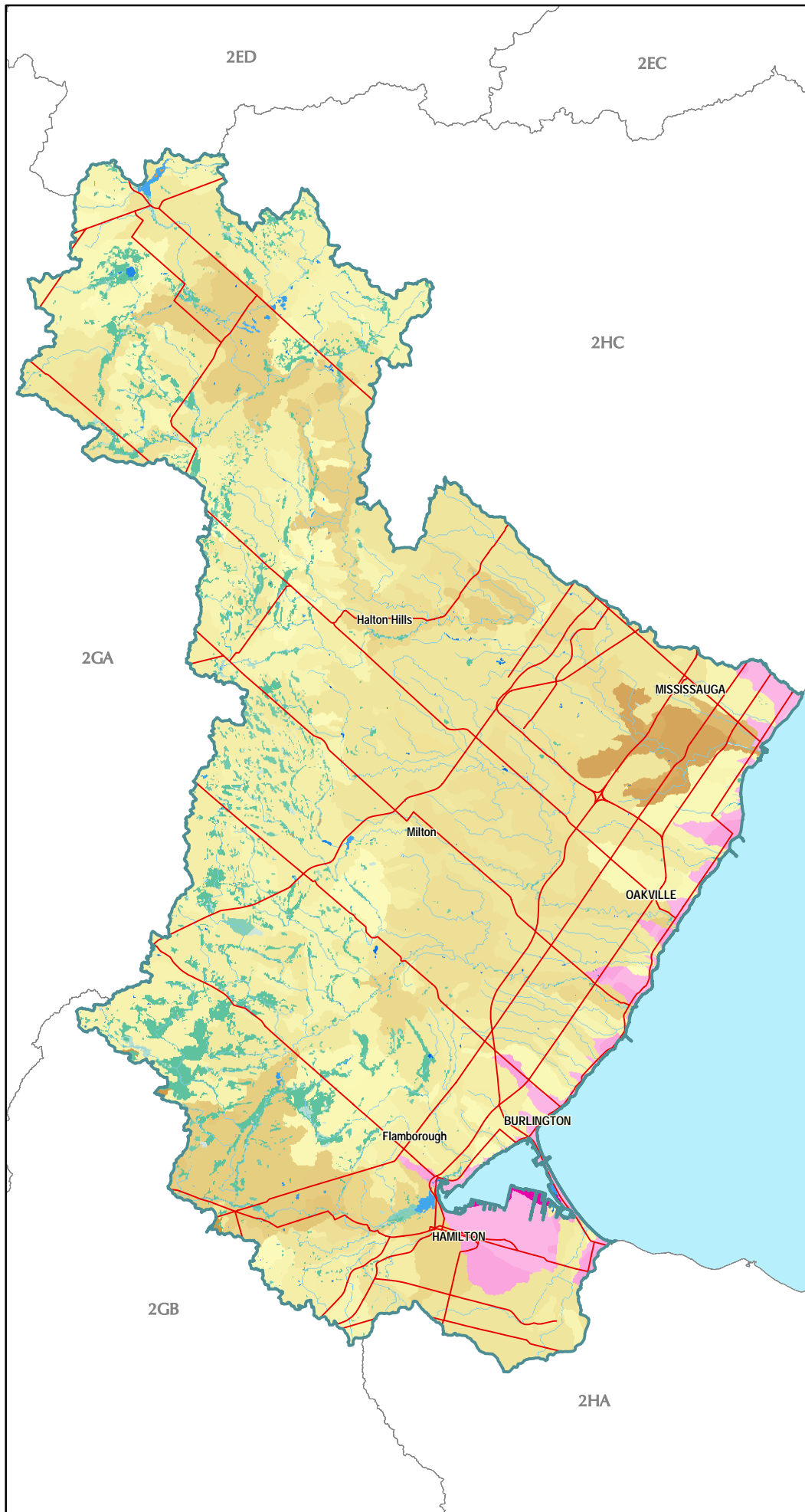
Authority lands. There are about 63 hectares of protected coastal areas, 11,927 hectares of protected stream systems, 379 hectares of protected lakes and 12,252 hectares of protected wetlands.

Species and Vegetation Community Targets:

Eleven species targets are known to occur in watershed 2HB. The primary targets are Silver Shiner (*Notropis photogenis*) and Hill's Pondweed (*Potamogeton hillii*). Secondary targets include Jefferson Salamander (*Ambystoma jeffersonianum*), Spiny Softshell (*Apalone spinifera*), Black Tern (*Chlidonias niger*), Redside Dace (*Clinostomus elongatus*), Wood Turtle (*Glyptemys insculpta*), Northern Map Turtle (*Graptemys geographica*), Least Bittern (*Ixobrychus exilis*), Prothonotary Warbler (*Protonotaria citrea*) and Louisiana Waterthrush (*Seiurus motacilla*). There is one known occurrence of Hill's Pondweed and eight of the nine secondary targets occur in conservation lands.

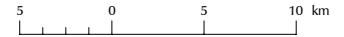
Conservation Blueprint:

The Conservation Blueprint includes 1,990 hectares of coastal areas, 41,152 hectares of stream systems, 382 hectares of lakes and 12,344 hectares of wetlands. The Conservation Blueprint also includes all of the known occurrences for primary targets Silver Shiner and Hill's Pondweed.

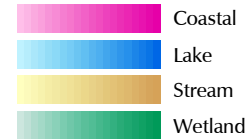


Great Lakes Conservation Blueprint for Biodiversity

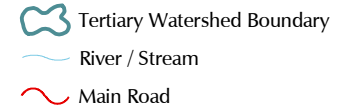
CREDIT RIVER - 16 MILE CREEK WATERSHED 2HB



Aquatic Ecological Systems



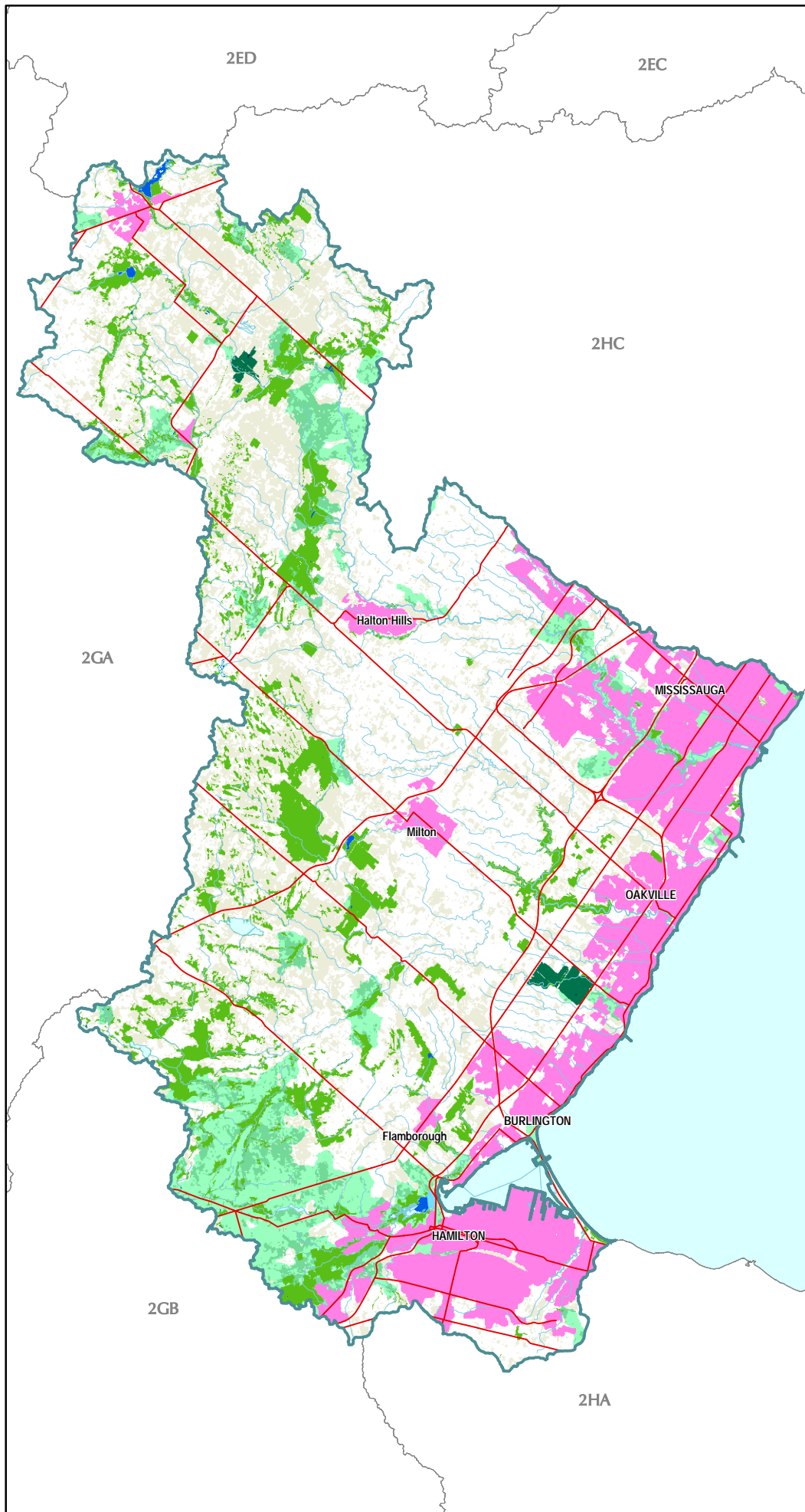
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

CREDIT RIVER - 16 MILE CREEK WATERSHED 2HB



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Documented extant vegetation communities and significant species information for tertiary watershed 2HB

# of pops in 2HB	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in PS LS-ANSIs	% of pops in PS LS-ANSIs	# of pops in CAs	% of pops in CAs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species																
18	<i>Ambystoma jeffersonianum</i>	Jefferson Salamander	G4	S2	THR	THR	SAR	6	33	4	22	9	50	13	72	secondary
5	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	3	60	1	20	5	100	5	100	secondary
1	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	0	0	0	1	100	1	100	secondary
1	<i>Protonotaria citrea</i>	Prothonotary Warbler	G5	S1S2B,SZN	END	END-R	SAR	1	100	0	0	1	100	1	100	secondary
7	<i>Seiurus motacilla</i>	Louisiana Waterthrush	G5	S3B,SZN	SC	SC	SAR	4	57	2	29	5	71	6	86	secondary
12	<i>Clinostomus elongatus</i>	Redside Dace	G4	S3	SC	THR	SAR	0	0	0	0	2	17	2	17	secondary
1	<i>Notropis photogenis</i>	Silver Shiner	G5	S2S3	SC	SC	SAR	0	0	0	0	0	0	1	100	3
2	<i>Glyptemys insculpta</i>	Wood Turtle	G4	S2	SC	END	SAR	2	100	0	0	2	100	2	100	secondary
13	<i>Graptemys geographica</i>	Northern Map Turtle	G5	S3	SC	SC	SAR	4	31	1	8	4	31	4	31	secondary
1	<i>Apalone spinifer</i>	Spiny Softshell	G5	S3	THR	THR	SAR	0	0	0	0	0	0	0	0	secondary
1	<i>Potamogeton hillii</i>	Hill's Pondweed	G3	S2	SC	THR	GRank SAR	1	100	0	0	1	100	1	100	4

Ecological systems summary for tertiary watershed 2HB

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	9617.69	4.18	63.38	0.66	1990.13	20.69	215.88	2.24
Stream Systems	205177.56	89.12	11927.88	5.81	41152.13	20.06	20080.88	9.79
Lake Systems	787.38	0.34	379.88	48.25	382.25	48.55	382.25	48.55
Wetland Systems	14486.06	6.29	12252.19	84.58	12344.25	85.21	12344.25	85.21
Tertiary watershed	230222.19	100.00	24645.94	10.71	55891.19	24.28	33045.69	14.35

Ecological systems details for tertiary watershed 2HB

System Integer	# of patches in 2HB	Total area (ha) in 2HB	% of total area in 2HB	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																			
Coastal Systems																			
104	1	1.44	0.00			0.00			0.00			0.00			0.00	1	1.44	1.44	100.00
105	1	7.81	0.00			0.00	1	1.81	23.20	1	2.56	32.80	1	2.81	36.00	1	7.81	7.81	100.00

System Integer	# of patches in 2HB	Total area (ha) in 2HB	% of total area in 2HB	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																			
Coastal Systems continued																			
106	1	1.06	0.00			0.00			0.00	1	0.88	82.35	1	0.88	82.35	1	1.06	1.06	100.00
108	7	66.44	0.03			0.00			0.00	1	1.25	1.88	1	1.25	1.88	5	40.69	40.69	61.24
121	11	180.56	0.08			0.00			0.00	3	0.88	0.48	3	0.88	0.48	7	0.88	0.88	0.48
122	3	30.94	0.01			0.00			0.00	2	5.13	16.57	3	5.19	16.77	3	5.19	5.19	16.77
123	9	142.75	0.06			0.00			0.00	2	2.00	1.40	2	2.00	1.40	2	2.00	2.00	1.40
124	11	44.69	0.02			0.00			0.00	1	1.00	2.24	1	1.00	2.24	1	1.00	1.00	2.24
125	27	2923.50	1.27			0.00	1	0.06	0.00	4	12.44	0.43	5	12.50	0.43	12	762.56	108.88	26.08
127	51	5947.81	2.58			0.00	1	3.88	0.07	8	27.38	0.46	9	27.88	0.47	13	1158.50	37.94	19.48
199	16	102.94	0.04			0.00			0.00	7	9.00	8.74	7	9.00	8.74	12	9.00	9.00	8.74
Stream Systems																			
201	11	1027.50	0.45			0.00	7	132.50	12.90	8	145.81	14.19	19	244.06	23.75	10	541.06	403.00	52.66
202	25	3774.19	1.64			0.00	24	548.44	14.53	10	609.88	16.16	54	873.19	23.14	69	1556.31	1130.25	41.24
203	52	7176.31	3.12			0.00	13	82.25	1.15	17	90.19	1.26	326	173.25	2.41	435	175.06	174.44	2.44
204	5	687.88	0.30			0.00	12	139.81	20.33			0.00	25	141.69	20.60	7	622.00	413.06	90.42
205	36	3975.38	1.73			0.00	23	47.00	1.18	23	91.81	2.31	343	156.00	3.92	433	156.00	156.00	3.92
206	86	24301.38	10.56			0.00	106	771.56	3.17	46	379.13	1.56	1099	1081.69	4.45	1381	1445.63	1232.31	5.95
207	24	2019.19	0.88			0.00	15	92.69	4.59	7	101.75	5.04	35	182.88	9.06	62	809.69	405.56	40.10
208	52	7551.75	3.28			0.00	102	51.88	0.69	4	84.88	1.12	888	224.00	2.97	955	896.63	510.63	11.87
209	3	736.06	0.32			0.00	5	106.75	14.50	2	42.44	5.77	20	120.94	16.43	6	736.00	298.75	99.99
210	85	28512.88	12.38	2	12.06	0.04	49	2113.38	7.41	34	870.44	3.05	1745	2888.00	10.13	2107	3679.81	3182.06	12.91
211	17	559.69	0.24			0.00			0.00	5	2.19	0.39	88	11.44	2.04	40	353.13	225.81	63.09
212	32	5522.13	2.40			0.00	15	150.50	2.73	21	348.25	6.31	40	441.75	8.00	48	897.06	601.19	16.24
213	21	2766.56	1.20			0.00	29	307.38	11.11	10	89.13	3.22	94	324.38	11.72	121	331.38	331.19	11.98
214	25	2891.38	1.26			0.00	48	38.75	1.34	3	1.06	0.04	261	62.75	2.17	319	71.44	66.56	2.47
215	50	9489.94	4.12			0.00	56	172.13	1.81	26	79.38	0.84	691	324.63	3.42	880	333.25	333.25	3.51
216	38	2736.75	1.19			0.00	9	25.94	0.95	3	62.81	2.30	196	109.13	3.99	116	1231.31	582.69	44.99
217	48	46120.25	20.03	3	107.19	0.23	36	387.81	0.84	27	348.56	0.76	151	802.19	1.74	172	1658.44	1119.06	3.60
218	45	4493.19	1.95			0.00			0.00	7	25.13	0.56	254	55.13	1.23	171	1183.31	500.31	26.34
219	10	2189.75	0.95			0.00	8	50.25	2.29	4	52.19	2.38	12	84.44	3.86	9	456.25	278.13	20.84
220	61	16081.44	6.99	3	416.25	2.59	23	1332.75	8.29	11	232.25	1.44	27	1703.31	10.59	48	1703.56	1703.44	10.59
221	3	1.69	0.00			0.00			0.00			0.00			0.00	4	1.69	0.88	100.00
222	4	1501.69	0.65			0.00	1	3.88	0.26	3	5.94	0.40	5	9.88	0.66	4	1449.06	599.38	96.50
223	9	2198.00	0.95			0.00	1	9.75	0.44	7	101.81	4.63	8	111.56	5.08	5	2161.25	534.63	98.33
224	4	255.44	0.11			0.00			0.00			0.00	20	1.69	0.66	21	9.13	9.13	3.57
225	11	3060.31	1.33	2	129.75	4.24	7	47.06	1.54	8	11.75	0.38	67	188.38	6.16	73	884.00	277.69	28.89
226	4	3362.25	1.46			0.00	9	191.00	5.68	2	0.94	0.03	17	193.69	5.76	8	3361.75	462.75	99.99
227	6	328.94	0.14			0.00	4	17.81	5.42	5	13.00	3.95	21	24.63	7.49	6	328.94	51.94	100.00
229	4	249.44	0.11	1	3.56	1.43	1	4.75	1.90			0.00	2	8.31	3.33	3	231.19	111.31	92.68
230	21	8488.94	3.69	2	275.19	3.24	14	567.44	6.68	26	218.50	2.57	138	1003.00	11.82	223	1344.31	1281.88	15.84
231	9	6282.44	2.73			0.00			0.00	5	43.81	0.70	432	94.81	1.51	49	6143.63	1898.38	97.79

System Integer	# of patches in 2HB	Total area (ha) in 2HB	% of total area in 2HB	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																			
Stream Systems continued																			
232	5	1215.56	0.53			0.00	8	173.94	14.31	7	140.00	11.52	7	190.38	15.66	6	1156.25	565.06	95.12
235	16	422.69	0.18			0.00	3	3.81	0.90	4	15.50	3.67	54	23.00	5.44	29	232.06	73.88	54.90
236	1	402.75	0.17			0.00	2	25.75	6.39	6	32.38	8.04	4	36.38	9.03	4	402.75	116.69	100.00
243	3	641.94	0.28			0.00			0.00			0.00	6	0.50	0.08	3	641.88	0.50	99.99
249	2	492.38	0.21			0.00			0.00	1	30.56	6.21	1	30.56	6.21	2	492.38	56.19	100.00
251	1	0.50	0.00			0.00			0.00			0.00			0.00				0.00
252	1	0.56	0.00			0.00			0.00	1	0.25	44.44	1	0.25	44.44	1	0.25	0.25	44.44
253	1	3468.25	1.51			0.00			0.00	8	57.38	1.65			0.00	2	3468.25	386.63	100.00
Lake Systems																			
322	69	6.25	0.00			0.00			0.00			0.00	20	59.13	946.00				0.00
325	13	43.94	0.02			0.00			0.00	3	5.25	11.95	9	6.44	14.65	11	6.44	6.44	14.65
326	29	288.00	0.13			0.00	5	73.38	25.48	3	154.81	53.75	30	225.63	78.34	36	276.25	276.25	95.92
327	5	13.63	0.01			0.00			0.00			0.00			0.00				0.00
328	94	159.00	0.07	1	2.25	1.42	3	1.88	1.18	4	1.38	0.86	17	9.31	5.86	21	18.38	18.38	11.56
329	5	11.56	0.01			0.00			0.00	1	7.56	65.41	3	7.94	68.65	4	7.94	7.94	68.65
330	3	0.25	0.00			0.00			0.00			0.00	1	0.13	50.00	1	0.13	0.13	50.00
331	60	102.06	0.04			0.00	10	44.56	43.66	6	3.31	3.25	22	52.19	51.13	22	52.19	52.19	51.13
332	39	22.63	0.01			0.00	1	0.75	3.31			0.00	16	3.75	16.57	18	3.75	3.75	16.57
333	4	9.38	0.00			0.00			0.00			0.00			0.00				0.00
334	53	45.13	0.02	1	0.56	1.25	1	0.50	1.11	1	2.31	5.12	5	3.50	7.76	5	3.50	3.50	7.76
335	54	26.88	0.01			0.00			0.00			0.00	13	1.00	3.72	13	1.00	1.00	3.72
336	38	58.69	0.03			0.00	2	9.50	16.19	1	1.38	2.34	3	10.88	18.53	4	12.69	12.69	21.62
Wetland Systems																			
401	209	394.13	0.17			0.00	13	31.75	8.06	9	14.13	3.58	193	317.31	80.51	230	319.13	319.13	80.97
402	262	819.75	0.36			0.00	22	49.00	5.98	24	35.06	4.28	247	677.88	82.69	319	679.50	679.50	82.89
404	2	291.06	0.13			0.00	1	117.00	40.20			0.00	2	287.56	98.80	2	291.06	291.06	100.00
405	890	2595.13	1.13	4	3.50	0.13	127	334.31	12.88	47	46.00	1.77	702	1938.75	74.71	870	1940.25	1940.25	74.77
406	796	10347.25	4.49	9	12.31	0.12	134	2209.13	21.35	96	590.75	5.71	652	9006.63	87.04	951	9090.25	9090.25	87.85
407	15	22.75	0.01			0.00			0.00	1	0.44	1.92	15	11.69	51.37	16	11.69	11.69	51.37
408	8	11.06	0.00			0.00	1	1.56	14.12	3	5.19	46.89	9	7.56	68.36	10	7.56	7.56	68.36
409	3	4.94	0.00			0.00	1	0.56	11.39	1	0.56	11.39	3	4.81	97.47	3	4.81	4.81	97.47
Non-Target Ecological Systems																			
Unclassified Ecological Systems																			
1	16	167.75	0.07			0.00			0.00			0.00			0.00				0.00
2	3	190.25	0.08			0.00			0.00			0.00	60	6.06	3.19	65	6.06	6.06	3.19
5	80	10.31	0.00			0.00			0.00			0.00			0.00				0.00
6	194	143.19	0.06			0.00	2	12.81	8.95	9	9.13	6.37	21	22.63	15.80	19	22.44	22.44	15.67

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and **Additional Designated Natural Heritage Areas** which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Humber – Don Rivers

Tertiary Watershed 2HC

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area:	265,647 hectares (656,413 acres)	
Land Ownership:	Public Land ~ 20% Private Land ~ 80%	
Planning Authority:	32% York Region 23% City of Toronto 1% Dufferin County	24% Peel Region 19% Durham Region 1% Simcoe County

General Description:

Tertiary watershed 2HC drains into northern Lake Ontario. There are approximately 17,686 hectares of coastal areas, 242,930 hectares of stream systems, 669 hectares of lakes and 3,883 hectares of wetlands. Watershed 2HC contains a large stretch of Lake Ontario coastline, from the east end of Mississauga to Whitby. The Toronto Islands, as well as the Humber, Rouge and Don Rivers, are located in the watershed. The remaining natural cover consists primarily of mixed forest, deciduous forest, dense coniferous forest and deciduous swamp.

Land Use:

The watershed is primarily comprised of urban and agricultural land. It is among the most urbanized watersheds in Ontario, containing the city of Toronto and much of the Greater Toronto Area, from Whitby in the east, to Markham and Vaughn in the north, and Brampton in the west. The developed urban and suburban lands of the Greater Toronto Area form the southern half of the watershed, while cropland can be found in the northern portions. Some quarries are also present.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2HC is 21,506 hectares, constituting approximately 8% of the watershed's total area. Over half of these (12,296 ha) are Conservation Authority lands. Another quarter of this land is located in provincially significant life science



ANSIs. There are approximately 732 hectares of protected coastal areas, 17,468 hectares of protected stream systems, 237 hectares of protected lakes and 2,998 hectares of protected wetlands.

Species and Vegetation Community Targets:

Six secondary species targets occur in watershed 2HC: Jefferson Salamander (*Ambystoma jeffersonianum*), Black Tern (*Chlidonias niger*), Redside Dace (*Clinostomus elongatus*), Northern Map Turtle (*Graptemys geographica*), Least Bittern (*Ixobrychus exilis*) and Stinkpot (*Sternotherus odoratus*). There are known occurrences of Black Tern, Redside Dace, Northern Map Turtle and Least Bittern in conservation lands. Graminoid Coastal Meadow Marsh is a rare vegetation community that occurs in this watershed.

Conservation Blueprint:

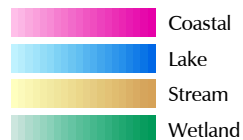
The Conservation Blueprint includes 5,361 hectares of coastal areas, 40,143 hectares of stream systems, 242 hectares of lakes and 3,020 hectares of wetlands. The Conservation Blueprint includes occurrences for secondary targets: Black Tern (1), Redside Dace (3), Northern Map Turtle (6) and Least Bittern (2). The portfolio also includes the Graminoid Coastal Meadow Marsh.

Great Lakes Conservation Blueprint for Biodiversity

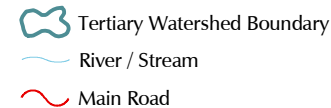
HUMBER - DON RIVERS WATERSHED 2HC



Aquatic Ecological Systems



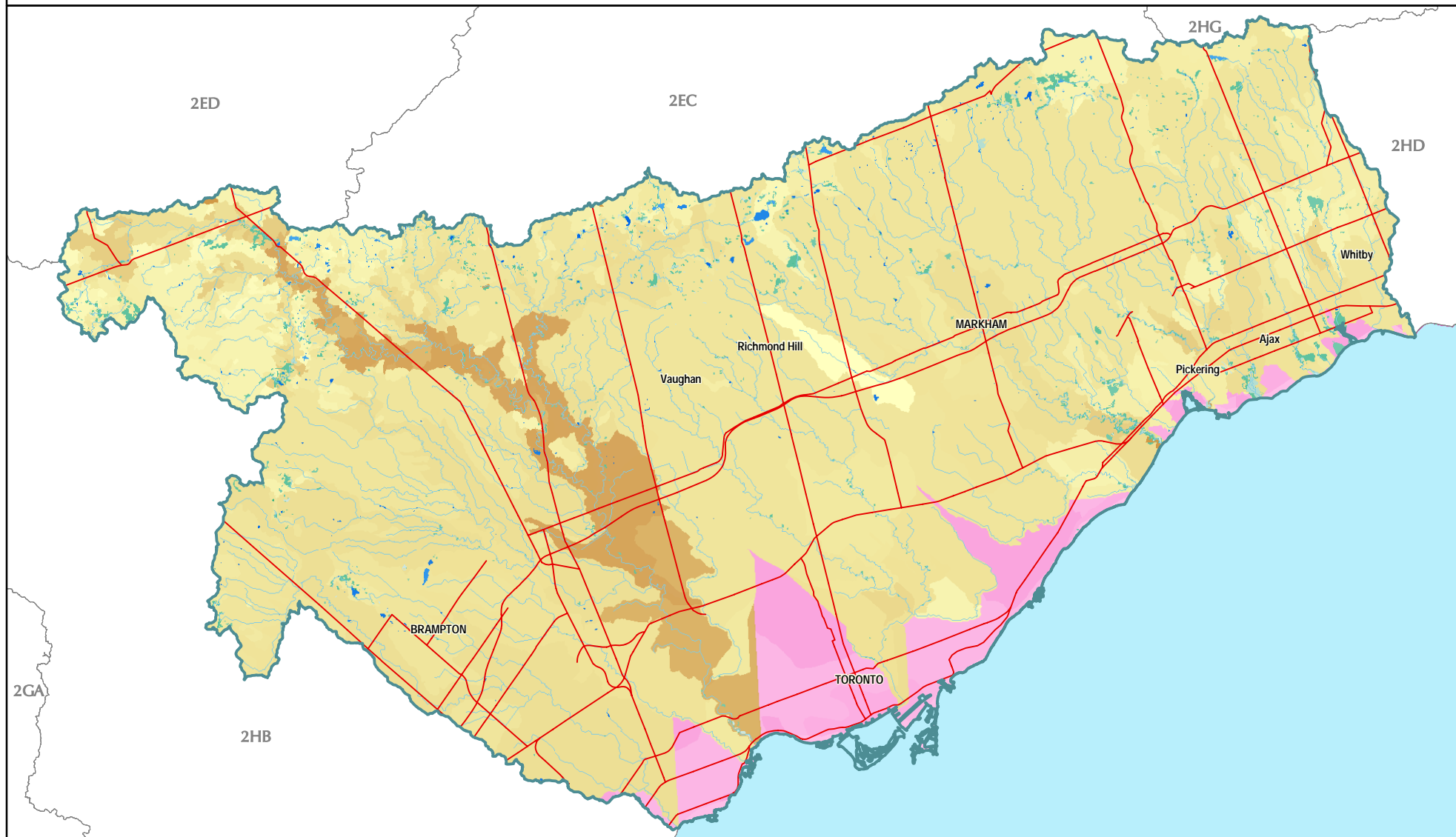
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

HUMBER - DON RIVERS WATERSHED 2HC



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

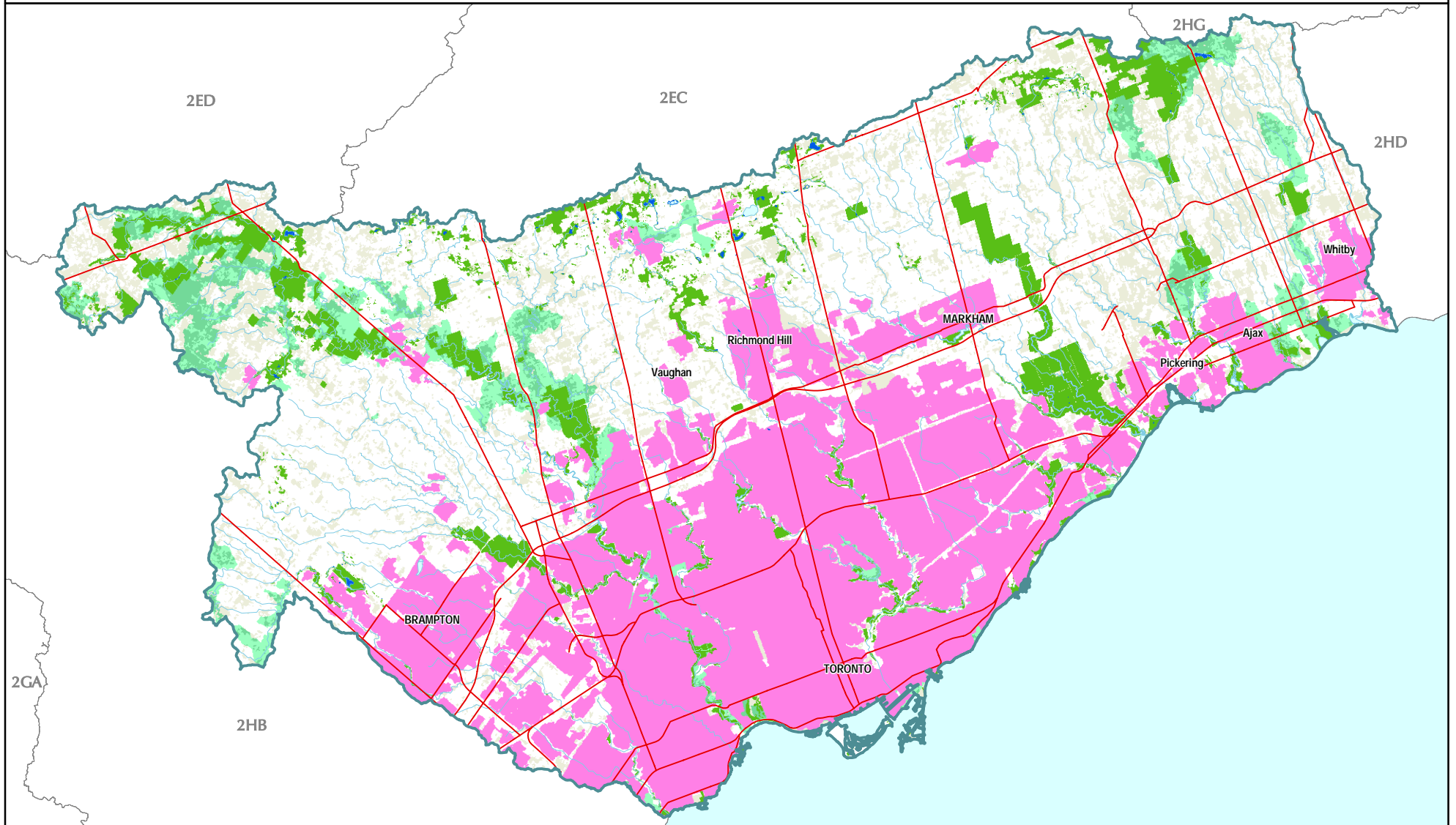
- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Documented extant vegetation communities and significant species information for tertiary watershed 2HC

# of pops in 2HC	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in PS LS-ANSIs	% of pops in PS LS-ANSIs	# of pops in CAs	% of pops in CAs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species																
1	<i>Ambystoma jeffersonianum</i>	Jefferson Salamander	G4	S2	THR	THR	SAR	0	0	0	0	0	0	0	0	secondary
2	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	1	50	0	0	2	100	2	100	secondary
2	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	1	50	1	50	1	50	1	50	secondary
19	<i>Clinostomus elongatus</i>	Redside Dace	G4	S3	SC	THR	SAR	0	0	2	11	3	16	3	16	secondary
13	<i>Graptemys geographica</i>	Northern Map Turtle	G5	S3	SC	SC	SAR	0	0	1	8	2	15	6	46	secondary
1	<i>Sternotherus odoratus</i>	Stinkpot	G5	S3	THR	THR	SAR	0	0	0	0	0	0	0	0	secondary
Communities																
1	Graminoid Coastal Meadow Marsh Type		G2?	S2			GRank	0	0	0	0	0	0	1	100	all viable

Ecological systems summary for tertiary watershed 2HC

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	17686.56	6.66	732.38	4.14	5361.81	30.32	928.44	5.25
Stream Systems	242930.69	91.45	17468.25	7.19	40143.31	16.52	24495.25	10.08
Lake Systems	669.63	0.25	237.25	35.43	242.31	36.19	242.31	36.19
Wetland Systems	3883.75	1.46	2998.94	77.22	3020.44	77.77	3020.44	77.77
Tertiary watershed	265647.63	100.00	21506.19	8.10	48837.25	18.38	28755.94	10.82

Ecological systems details for tertiary watershed 2HC

System Integer	# of patches in 2HC	Total area (ha) in 2HC	% of total area in 2HC	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																
Coastal Systems																
104	6	52.25	0.02	1	9.94	19.02	21	24.19	46.29	18	28.50	54.55	19	38.88	38.88	74.40
105	5	17.69	0.01			0.00	3	1.94	10.95	4	2.06	11.66	4	15.81	15.81	89.40
106	6	49.38	0.02	3	3.13	6.33	14	27.44	55.57	14	30.56	61.90	12	44.81	44.81	90.76
108	32	108.75	0.04	4	1.13	1.03	20	24.38	22.41	25	25.13	23.10	33	36.69	36.69	33.74
113	10	4.94	0.00			0.00	9	2.56	51.90	12	2.88	58.23	12	4.25	4.25	86.08
116	3	3.31	0.00			0.00	3	2.00	60.38	3	2.00	60.38	2	3.19	3.19	96.23
120	1	0.44	0.00			0.00			0.00			0.00	1	0.50	0.50	100

System Integer	# of patches in 2HC	Total area (ha) in 2HC	% of total area in 2HC	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Coastal Systems continued																
125	26	6486.06	2.44	29	79.44	1.22	46	100.13	1.54	53	161.63	2.49	49	499.38	251.75	7.70
126	15	1843.75	0.69	5	6.31	0.34	17	51.81	2.81	20	57.25	3.11	25	1513.31	80.00	82.08
127	16	7943.50	2.99	8	70.56	0.89	36	87.88	1.11	36	132.81	1.67	22	2915.44	163.00	36.70
199	66	796.13	0.30	8	25.25	3.17	45	157.88	19.83	45	168.81	21.20	85	168.81	168.81	21.20
Stream Systems																
201	15	196.00	0.07	8	16.63	8.48	3	14.06	7.17	9	20.56	10.49	13	28.63	28.25	14.60
202	25	1020.25	0.38	7	65.88	6.46	6	21.31	2.09	20	88.31	8.66	25	274.25	220.63	26.88
203	41	1707.44	0.64	53	270.38	15.84	17	233.81	13.69	150	425.38	24.91	128	892.88	700.31	52.29
204	1	2.50	0.00			0.00			0.00	4	0.50	20.00	4	0.50	0.50	20.00
205	11	104.38	0.04	7	17.06	16.35	3	3.63	3.47	8	17.38	16.65	8	21.06	17.94	20.18
206	117	12350.31	4.65	110	544.06	4.41	60	858.63	6.95	241	1367.50	11.07	332	2115.94	1834.56	17.13
207	6	1378.63	0.52			0.00	3	230.19	16.70	3	230.19	16.70	3	1285.50	938.13	93.25
208	41	1455.63	0.55	3	13.81	0.95	18	51.38	3.53	88	67.38	4.63	112	68.13	68.13	4.68
209	13	107.88	0.04	5	2.69	2.49	1	1.94	1.80	7	4.69	4.35	11	39.75	32.81	36.85
210	51	12348.38	4.65	55	469.63	3.80	43	356.38	2.89	261	1031.06	8.35	342	2476.81	1929.38	20.06
211	17	738.56	0.28			0.00	6	31.50	4.27	37	36.06	4.88	47	36.44	36.13	4.93
212	53	5233.13	1.97	20	326.25	6.23	21	400.50	7.65	58	593.19	11.34	42	2426.38	1336.38	46.37
213	52	2658.19	1.00	56	81.50	3.07	19	200.50	7.54	185	286.75	10.79	263	531.00	370.13	19.98
214	8	242.81	0.09	2	1.31	0.54	2	21.00	8.65	13	24.88	10.24	30	187.13	96.44	77.07
215	21	7155.13	2.69	25	115.81	1.62	43	224.50	3.14	123	342.13	4.78	125	640.69	459.69	8.95
216	13	1240.25	0.47	6	22.44	1.81	5	45.38	3.66	33	72.19	5.82	43	973.63	163.06	78.50
217	100	110892.88	41.74	172	1867.06	1.68	144	2156.44	1.94	1061	5784.31	5.22	1417	5974.00	5892.19	5.39
218	28	15740.44	5.93	20	14.13	0.09	51	150.25	0.95	136	174.19	1.11	96	2304.19	528.06	14.64
219	9	6443.94	2.43	6	13.81	0.21	51	951.56	14.77	71	959.63	14.89	89	1618.56	1200.25	25.12
220	37	35498.25	13.36	53	583.94	1.64	88	1255.88	3.54	296	2072.38	5.84	394	3535.50	2879.56	9.96
221	4	527.94	0.20			0.00	3	1.94	0.37	3	1.94	0.37	7	527.75	5.25	99.96
222	17	3593.81	1.35	37	74.00	2.06	57	101.38	2.82	77	138.94	3.87	77	785.56	266.19	21.86
223	8	155.38	0.06			0.00	1	0.38	0.24	2	0.44	0.28	6	24.06	6.63	15.49
224	7	200.56	0.08	12	34.44	17.17	2	8.06	4.02	13	40.56	20.22	18	46.19	43.06	23.03
225	10	1700.56	0.64	4	51.50	3.03	18	130.38	7.67	23	140.50	8.26	22	869.75	438.13	51.14
227	2	28.06	0.01	2	15.38	54.79			0.00	2	15.38	54.79	2	15.38	15.38	54.79
230	31	2375.69	0.89	42	478.38	20.14	26	307.06	12.93	44	669.63	28.19	61	774.81	756.06	32.61
232	5	72.31	0.03	2	2.31	3.20	3	3.50	4.84	5	5.81	8.04	5	41.88	24.44	57.91

System Integer	# of patches in 2HC	Total area (ha) in 2HC	% of total area in 2HC	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Stream Systems continued																
235	6	89.19	0.03	6	15.13	16.96	2	22.50	25.23	7	27.44	30.76	6	76.38	58.13	85.63
239	1	19.75	0.01			0.00	1	12.44	62.97	1	12.44	62.97	1	12.44	12.44	62.97
242	1	6.88	0.00	1	1.13	16.36	1	2.13	30.91	1	2.56	37.27	2	2.56	2.56	37.27
243	6	842.19	0.32	3	8.88	1.05	20	194.88	23.14	20	198.88	23.61	22	574.44	299.69	68.21
245	1	2.19	0.00			0.00	1	1.38	62.86	1	1.38	62.86	1	1.38	1.38	62.86
246	6	5024.75	1.89	2	36.81	0.73	42	327.44	6.52	46	347.31	6.91	10	4986.06	444.19	99.23
248	2	55.19	0.02	3	5.88	10.65	1	0.06	0.11	4	5.94	10.76	2	55.06	8.13	99.77
249	8	370.38	0.14			0.00	7	78.44	21.18	8	78.63	21.23	15	276.88	91.13	74.76
251	4	241.69	0.09			0.00	5	128.50	53.17	5	128.50	53.17	4	241.69	204.50	100.00
252	2	558.69	0.21			0.00	6	106.13	19.00	6	106.13	19.00	2	558.69	205.94	100.00
253	9	3760.88	1.42	4	44.19	1.17	34	971.00	25.82	40	974.56	25.91	20	3215.00	1771.13	85.49
254	7	4999.94	1.88			0.00	42	972.69	19.45	42	972.69	19.45	45	1626.44	1108.44	32.53
Lake Systems																
325	3	1.38	0.00	2	0.19	13.64			0.00	2	0.19	13.64	2	0.19	0.19	13.64
326	8	78.50	0.03	7	71.25	90.76	3	26.38	33.60	7	71.44	91.00	7	71.44	71.44	91.00
327	2	0.56	0.00			0.00			0.00			0.00				0.00
328	21	36.13	0.01	1	22.06	61.07	1	0.38	1.04	3	22.63	62.63	3	22.63	22.63	62.63
329	7	51.00	0.02	2	18.44	36.15			0.00	3	20.56	40.32	3	20.56	20.56	40.32
331	84	144.31	0.05	18	8.13	5.63	4	7.75	5.37	27	22.13	15.33	43	24.75	24.75	17.15
332	4	3.63	0.00	1	0.06	1.72	2	0.75	20.69	2	0.75	20.69	2	0.75	0.75	20.69
333	15	47.63	0.02			0.00	3	18.25	38.32	3	19.13	40.16	3	19.13	19.13	40.16
334	130	132.31	0.05	9	10.69	8.08	3	2.06	1.56	29	18.38	13.89	33	19.88	19.88	15.02
335	15	17.69	0.01	2	6.56	37.10	3	2.06	11.66	5	8.63	48.76	6	8.63	8.63	48.76
336	161	152.75	0.06	8	29.44	19.27	5	5.31	3.48	40	53.38	34.94	58	54.31	54.31	35.56
Wetland Systems																
401	156	165.44	0.06	40	36.44	22.02	22	25.75	15.56	138	130.00	78.58	157	130.94	130.94	79.15
402	237	527.06	0.20	66	194.25	36.86	31	145.69	27.64	239	456.38	86.59	288	470.25	470.31	89.22
405	466	879.63	0.33	133	239.25	27.20	116	225.50	25.64	343	618.13	70.27	381	618.94	619.00	70.36
406	579	2285.88	0.86	174	851.06	37.23	155	627.94	27.47	423	1773.19	77.57	507	1779.06	1779.06	77.83
407	6	4.19	0.00			0.00	3	1.75	41.79	4	2.38	56.72	4	2.38	2.38	56.72
408	6	5.44	0.00	3	2.63	48.28			0.00	4	2.88	52.87	4	2.88	2.88	52.87
409	9	13.88	0.01	5	6.19	44.59			0.00	9	13.75	99.10	9	13.75	13.75	99.10
410	3	2.25	0.00	2	1.31	58.33	1	0.94	41.67	3	2.25	100.00	3	2.25	2.25	100.00

System Integer	# of patches in 2HC	Total area (ha) in 2HC	% of total area in 2HC	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Non-Target Ecological Systems																
Coastal Systems																
121	2	48.19	0.02			0.00	6	17.94	37.22	6	17.94	37.22	8	17.94	17.94	37.22
122	5	92.63	0.03			0.00	3	0.94	1.01	3	0.94	1.01	4	0.94	0.94	1.01
124	30	239.56	0.09	6	10.44	4.36	34	99.38	41.48	32	101.88	42.53	60	101.88	101.88	42.53
Unclassified Ecological Systems																
2	1	1789.75	0.67			0.00			0.00			0.00				0.00
3	4	3.75	0.00			0.00			0.00	1	0.06	1.67	1	0.06	0.06	1.67
5	69	351.50	0.13	1	0.06	0.02	16	1.88	0.53	37	18.81	5.35	42	18.81	18.81	5.35
6	178	125.50	0.05	20	39.00	31.08	6	27.06	21.56	22	50.56	40.29	31	50.56	50.56	40.29

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Ganaraska

Tertiary Watershed 2HD

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area:	160,257 hectares (395,995 acres)
Land Ownership:	Public Land ~ 5% Private Land ~ 95%
Planning Authority:	50% Northumberland County 48% Durham Region 1% Hastings County 0.5% Peterborough County 0.5% City of Kawartha Lakes

General Description:

Tertiary watershed 2HD drains into north-central Lake Ontario. There are approximately 4,260 hectares of coastal areas, 142,233 hectares of stream systems, 220 hectares of lakes and 6,971 hectares of wetlands. This long, narrow watershed follows the coast of Lake Ontario from Oshawa to Brighton and includes the Presqu'ile peninsula, Presqu'ile Bay and Wellers Bay. The Ganaraska River is also located within this watershed. The natural cover that remains is dominated by dense coniferous forest and mixed forest. Deciduous forests, deciduous swamps and conifer swamps are also present.

Land Use:

Land cover consists primarily of agricultural land, with patches of developed land along the Lake Ontario shoreline. Several quarries are scattered throughout the region. A few conifer plantations are also found near the north edge of the watershed.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2HD is 7,606 hectares, constituting approximately 4.8% of the watershed's total area. Over a third of these lands (2,819 ha) are located in provincially



significant life science ANSIs, of which 381 hectares coincide with provincial parks. Another third of conservation lands are Conservation Authority lands. There are approximately 450 hectares of protected coastal areas, 3,588 hectares of protected stream systems, 108 hectares of protected lakes and 3129 hectares of protected wetlands.

Species and Vegetation Community Targets:

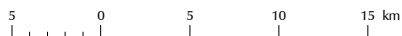
Seven species targets are known from this watershed. Primary targets include Schweinitz's Sedge (*Carex schweinitzii*) and Ram's-head Lady's-slipper (*Cypripedium arietinum*). Secondary targets include Black Tern (*Chlidonias niger*), Northern Map Turtle (*Graptemys geographica*), Least Bittern (*Ixobrychus exilis*), King Rail (*Rallus elegans*) and Stinkpot (*Sternotherus odoratus*). There are occurrences for all of the species targets in conservation lands, except for Schweinitz's Sedge. One rare vegetation community is known from this watershed, Graminoid Coastal Meadow Marsh. This community is located within a provincially significant life science ANSI.

Conservation Blueprint:

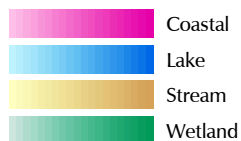
The Conservation Blueprint includes 761 hectares of coastal areas, 17,958 hectares of stream systems, 108 hectares of lakes and 3,574 hectares of wetlands. The Conservation Blueprint also includes all of the occurrences for target species in the watershed.

Great Lakes Conservation Blueprint for Biodiversity

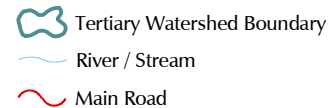
GANARASKA WATERSHED 2HD



Aquatic Ecological Systems



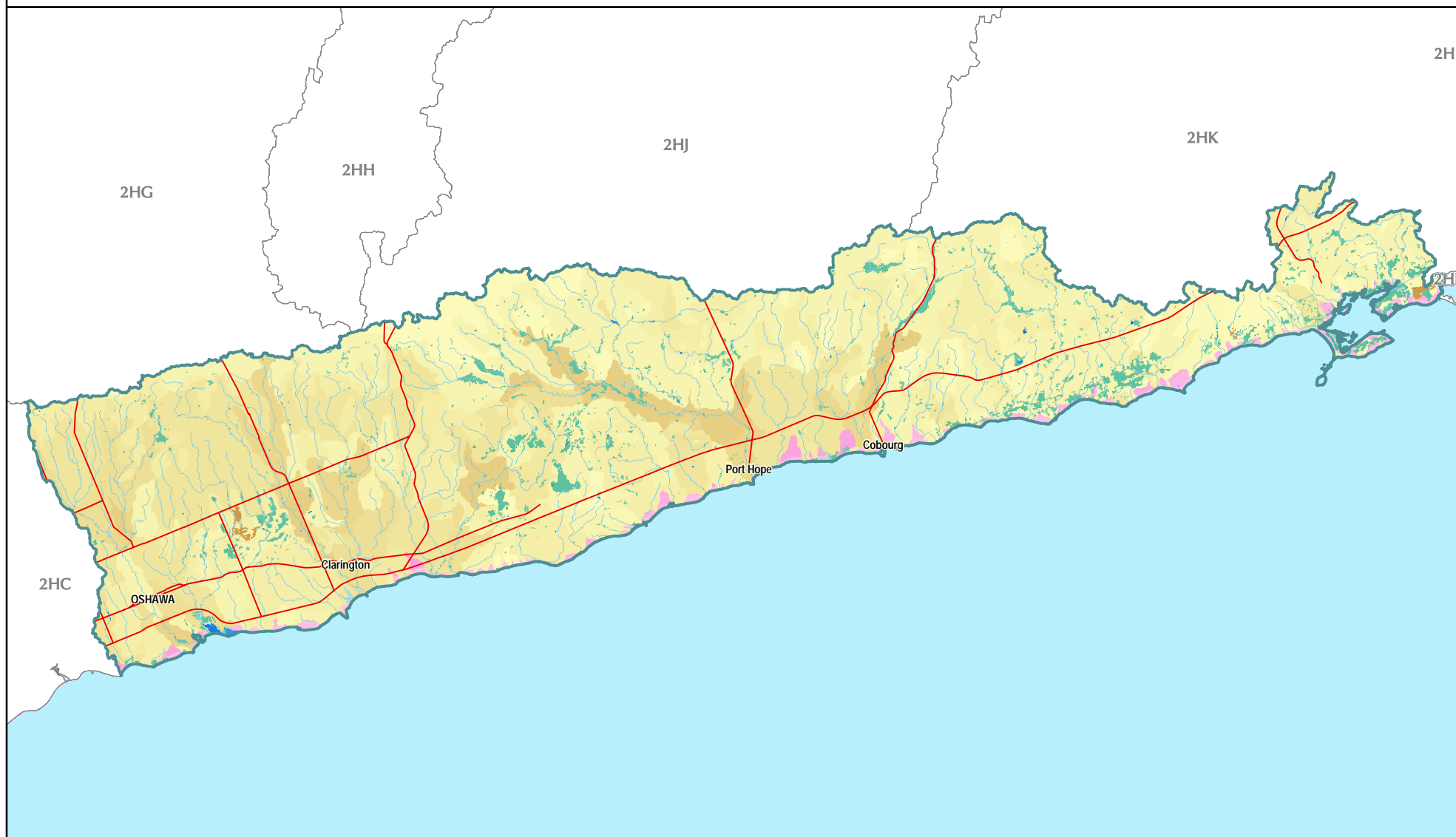
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

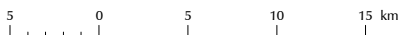
For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

GANARASKA WATERSHED 2HD



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

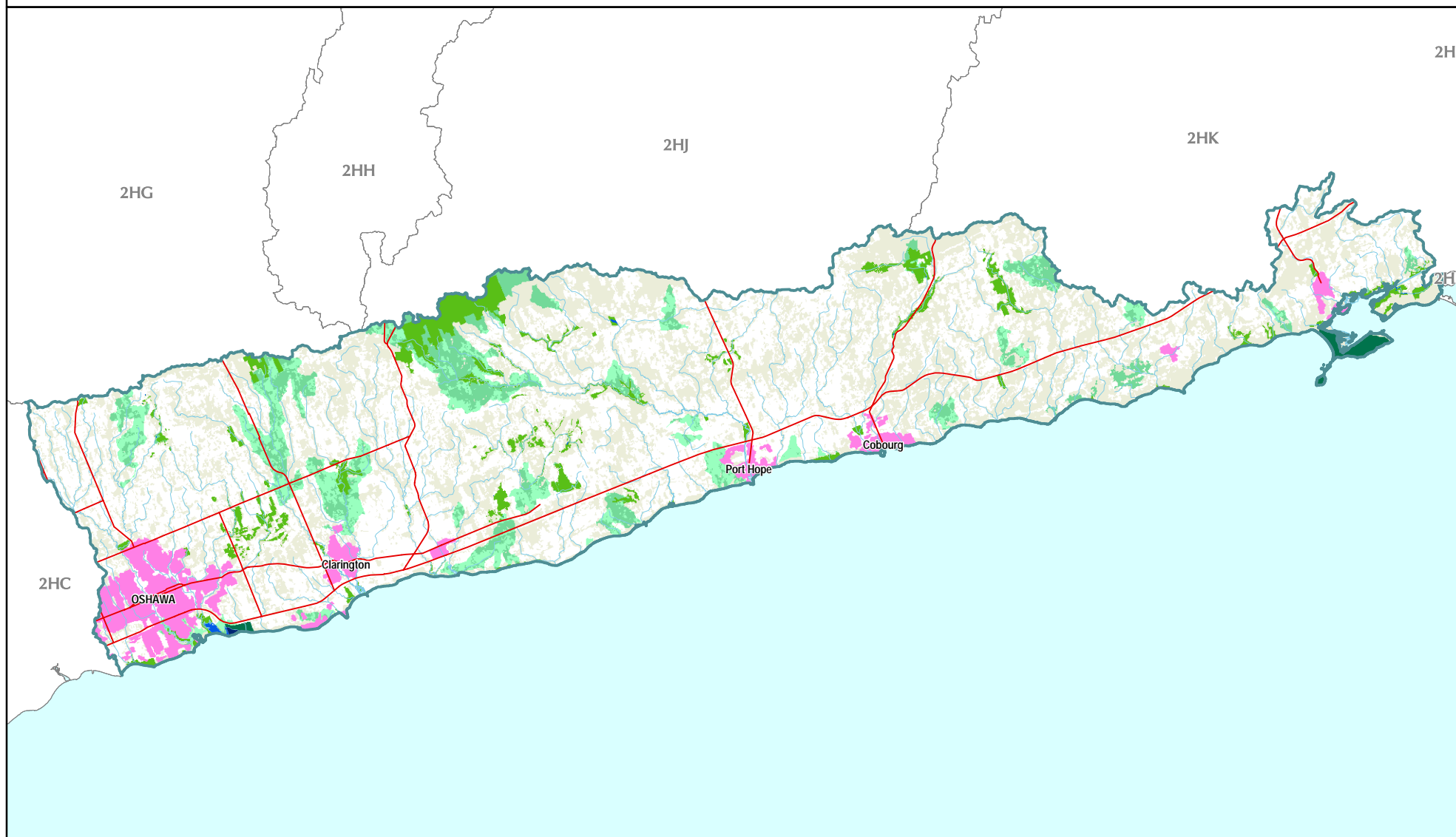
- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Documented extant vegetation communities and significant species information for tertiary watershed 2HD

# of pops in 2HD	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in Parks and PAs	% of pops in Parks and PAs	# of pops in PS LS-ANSIs	% of pops in PS LS-ANSIs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species																
1	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	0	1	100	1	100	1	100	secondary
2	<i>Rallus elegans</i>	King Rail	G4G5	S2B,SZN	END	END-R	SAR	1	50	2	100	2	100	2	100	secondary
2	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	VUL	SAR	0	0	1	50	2	100	2	100	secondary
1	<i>Graptemys geographica</i>	Northern Map Turtle	G5	S3	SC	SC	SAR	1	100	0	0	1	100	1	100	secondary
1	<i>Sternotherus odoratus</i>	Stinkpot	G5	S3	THR	THR	SAR	1	100	0	0	1	100	1	100	secondary
1	<i>Carex schweinitzii</i>	Schweinitz's Sedge	G3	S3			GRank	0	0	0	0	0	0	1	100	2
1	<i>Cypripedium arietinum</i>	Ram's-head Lady's-slipper	G3	S3			GRank	1	100	0	0	1	100	1	100	2
Communities																
1	Graminoid Coastal Meadow Marsh Type		G2?	S2			GRank	1	100	1	100	1	100	1	100	all viable

Ecological systems summary for tertiary watershed 2HD

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	4260.63	2.66	450.00	10.56	761.19	17.87	552.50	12.97
Stream Systems	142233.50	88.75	3588.00	2.52	17958.38	12.63	11026.13	7.75
Lake Systems	220.69	0.14	108.81	49.31	108.81	49.31	108.81	49.31
Wetland Systems	6971.38	4.35	3129.56	44.89	3574.13	51.27	3574.13	51.27
Tertiary watershed	160257.06	100.00	7606.75	4.75	23391.69	14.60	15547.81	9.70

Ecological systems details for tertiary watershed 2HD

System Integer	# of patches in 2HD	Total area (ha) in 2HD	% of total area in 2HD	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																			
Coastal Systems																			
101	16	45.31	0.03	1	2.44	5.38	1	3.94	8.69			0.00	4	6.75	14.90	7	11.75	11.75	25.93
102	3	0.50	0.00			0.00			0.00			0.00	2	0.13	25.00	2	0.13	0.13	25.00
104	4	9.50	0.01	1	0.69	7.24	1	3.81	40.13			0.00	2	4.50	47.37	3	7.50	7.50	78.95
105	38	156.50	0.10	3	17.31	11.06	7	12.31	7.87	4	5.81	3.71	18	34.13	21.81	27	41.63	41.63	26.60

System Integer	# of patches in 2HD	Total area (ha) in 2HD	% of total area in 2HD	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																			
Coastal Systems continued																			
106	12	37.38	0.02	2	4.81	12.88	4	4.44	11.87			0.00	8	10.06	26.92	7	12.75	12.75	34.11
107	21	99.38	0.06			0.00			0.00	4	8.56	8.62	7	8.88	8.93	11	32.63	32.63	32.83
108	39	129.44	0.08	5	18.44	14.24	5	4.56	3.52	1	0.31	0.24	8	22.44	17.33	12	42.38	42.38	32.74
113	23	19.56	0.01	1	0.13	0.64	1	0.13	0.64			0.00	16	1.63	8.31	19	5.38	5.38	27.48
116	12	8.31	0.01	8	5.38	64.66	4	2.06	24.81			0.00	9	5.44	65.41	13	5.63	5.63	67.67
125	23	572.44	0.36	1	0.19	0.03	4	2.63	0.46			0.00	8	3.25	0.57	13	185.56	7.50	32.42
126	29	299.69	0.19			0.00	1	0.13	0.04	1	5.94	1.98	3	6.13	2.04	10	43.00	12.38	14.35
127	86	906.81	0.57	17	170.00	18.75	8	25.25	2.78	2	0.50	0.06	40	173.50	19.13	47	199.69	199.69	22.02
199	152	1845.81	1.15	18	108.13	5.86	30	35.56	1.93	8	23.13	1.25	69	161.75	8.76	81	161.75	161.75	8.76
Stream Systems																			
201	4	389.69	0.24			0.00	3	6.00	1.54			0.00	3	6.00	1.54	3	328.19	176.56	84.22
202	56	11251.38	7.02			0.00	21	1219.88	10.84	5	1043.13	9.27	101	1507.00	13.39	91	3409.00	2923.94	30.30
203	73	2499.81	1.56	6	48.50	1.94			0.00			0.00	23	51.31	2.05	31	61.38	61.38	2.46
204	9	941.13	0.59			0.00			0.00			0.00			0.00	5	722.00	414.38	76.72
205	27	313.63	0.20	1	14.25	4.54	2	10.63	3.39			0.00	15	15.88	5.06	16	131.00	103.69	41.77
206	165	44293.25	27.64	2	31.81	0.07	51	637.81	1.44	32	293.00	0.66	621	950.81	2.15	754	1527.63	1336.06	3.45
207	34	5184.69	3.24			0.00	1	8.88	0.17	3	40.00	0.77	37	51.81	1.00	16	1370.81	893.44	26.44
208	9	1145.94	0.72			0.00			0.00			0.00	6	0.50	0.04	4	1056.81	394.81	92.22
209	18	785.00	0.49			0.00	2	2.38	0.30	2	4.44	0.57	4	6.81	0.87	7	569.38	112.81	72.53
210	91	25282.19	15.78	1	7.75	0.03	12	106.63	0.42	6	55.13	0.22	265	196.69	0.78	307	872.50	694.56	3.45
211	3	226.19	0.14			0.00			0.00			0.00			0.00	4	226.25	63.06	100.00
212	22	6260.00	3.91			0.00	1	28.56	0.46	1	28.69	0.46	2	57.25	0.91	4	1184.44	638.38	18.92
213	15	1573.88	0.98	2	14.63	0.93			0.00			0.00	26	17.81	1.13	42	130.19	55.06	8.27
214	5	37.63	0.02	1	4.06	10.80	1	3.63	9.63			0.00	2	4.13	10.96	2	4.13	4.13	10.96
215	26	1604.44	1.00			0.00			0.00			0.00	55	6.38	0.40	67	11.69	9.81	0.73
216	8	924.25	0.58			0.00			0.00	1	6.50	0.70	8	7.81	0.85	5	904.19	359.81	97.83
217	44	24972.56	15.58			0.00	3	101.25	0.41	6	118.81	0.48	169	237.44	0.95	199	751.63	490.63	3.01
218	14	1047.19	0.65			0.00			0.00	4	7.50	0.72	18	11.50	1.10	22	133.38	35.88	12.74
219	9	198.88	0.12			0.00	8	2.50	1.26			0.00	11	2.88	1.45	15	101.69	31.00	51.13
220	19	7065.38	4.41			0.00			0.00	8	56.00	0.79	34	59.13	0.84	37	70.19	70.00	0.99
222	11	93.94	0.06	3	12.38	13.17	7	0.88	0.93			0.00	11	13.56	14.44	10	93.75	19.56	99.80
223	3	149.69	0.09			0.00			0.00			0.00			0.00	3	149.69	64.38	100.00
224	10	0.81	0.00			0.00			0.00			0.00			0.00				0.00
225	10	5629.38	3.51			0.00	1	66.06	1.17	15	264.44	4.70	15	322.75	5.73	20	3785.88	1627.69	67.25
227	2	357.94	0.22			0.00			0.00	3	55.88	15.61	3	55.88	15.61	2	357.94	78.19	100.00
230	18	6218.00	3.88			0.00	1	0.31	0.01	7	29.44	0.47	134	42.31	0.68	118	702.88	362.19	11.30
238	1	0.06	0.00			0.00			0.00			0.00			0.00	1	0.06	0.06	100.00
Lake Systems																			
325	12	1.69	0.00			0.00			0.00			0.00	5	0.56	33.33	5	0.56	0.56	33.33

System Integer	# of patches in 2HD	Total area (ha) in 2HD	% of total area in 2HD	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																			
Lake Systems continued																			
326	15	5.56	0.00			0.00			0.00			0.00	13	3.31	59.55	18	3.31	3.31	59.55
328	47	16.75	0.01			0.00			0.00			0.00	1	0.06	0.37	1	0.06	0.06	0.37
329	1	37.31	0.02	1	28.38	76.05			0.00			0.00	1	36.44	97.65	1	36.44	36.44	97.65
330	2	13.25	0.01			0.00			0.00	1	8.13	61.32	1	8.13	61.32	1	8.13	8.13	61.32
331	46	39.13	0.02			0.00	1	0.06	0.16	1	1.06	2.72	7	3.94	10.06	8	3.94	3.94	10.06
332	14	5.25	0.00			0.00			0.00			0.00	1	0.06	1.19	1	0.06	0.06	1.19
333	3	51.25	0.03			0.00	1	51.00	99.51			0.00	3	51.25	100.00	6	51.25	51.25	100.00
334	27	8.56	0.01			0.00			0.00			0.00	2	0.25	2.92	2	0.25	0.25	2.92
335	18	25.00	0.02			0.00	1	0.25	1.00			0.00	1	0.25	1.00	2	0.25	0.25	1.00
336	31	12.38	0.01			0.00			0.00			0.00	2	0.38	3.03	2	0.38	0.38	3.03
Wetland Systems																			
401	68	82.06	0.05	23	22.38	27.27	25	35.88	43.72	3	1.13	1.37	65	67.06	81.72	102	67.19	67.19	81.87
402	112	488.06	0.30	4	1.56	0.32	9	49.25	10.09	5	11.19	2.29	100	405.50	83.08	140	412.94	412.94	84.61
405	625	1245.69	0.78	9	22.31	1.79	20	27.81	2.23	12	12.25	0.98	80	150.63	12.09	94	165.31	165.31	13.27
406	561	5121.56	3.20	5	101.13	1.97	27	274.31	5.36	25	44.50	0.87	210	2473.88	48.30	312	2896.19	2896.19	56.55
407	1	28.31	0.02	1	28.31	100.00	1	26.25	92.72			0.00	1	28.31	100.00	1	28.31	28.31	100.00
408	3	3.06	0.00	1	1.31	42.86	1	1.31	42.86			0.00	2	1.56	51.02	5	1.56	1.56	51.02
409	2	2.63	0.00			0.00			0.00			0.00	2	2.63	100	2	2.63	2.63	100.00
Non-Target Ecological Systems																			
Coastal Systems																			
121	12	69.25	0.04	3	3.44	4.96			0.00			0.00	8	3.94	5.69	10	3.94	3.94	5.69
122	2	0.81	0.00			0.00			0.00			0.00			0.00				0.00
123	4	21.25	0.01			0.00			0.00	1	6.19	29.12	1	6.19	29.12	1	6.19	6.19	29.12
124	16	38.69	0.02	3	1.25	3.23			0.00			0.00	4	1.31	3.39	11	1.31	1.31	3.39
Unclassified Ecological Systems																			
2	1	4.69	0.00			0.00			0.00	1	4.69	100.00	1	4.69	100.00	1	4.69	4.69	100.00
3	6	4.56	0.00	1	1.13	24.66	1	1.13	24.66			0.00	4	4.19	91.78	4	4.19	4.19	91.78
5	96	65.38	0.04	23	55.44	84.80	26	57.94	88.62	2	0.13	0.19	38	60.56	92.64	31	58.69	58.69	89.77
6	16	287.44	0.18	4	5.56	1.94	6	3.94	1.37			0.00	17	227.50	79.15	20	227.56	227.56	79.17

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Prince Edward Bay

Tertiary Watershed 2HE

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area: 108,749 hectares (268,718 acres)

Land Ownership: Public Land ~ 3%
Private Land ~ 95%
National Parks ~ 2%

Planning Authority: 99% Prince Edward County
1% Hastings County

General Description:

Tertiary watershed 2HE drains into northeastern Lake Ontario and consists of the Prince Edward Peninsula. There are approximately 14,058 hectares of coastal areas, 76,169 hectares of stream systems, 2,145 hectares of lakes and 15,807 hectares of wetlands. Lake Ontario lies to the south while the Bay of Quinte largely separates the northern part of the peninsula from the mainland. Many other Lake Ontario bays are present such as Wellington Bay and Prince Edward Bay. Waupoos, Timber and Main Duck Islands are also included. The remaining natural cover consists of mixed forest, alvar, dense deciduous and coniferous forest, and sparse deciduous forest. Deciduous swamps, coniferous swamps, and open fens also occur. There are a number of marshes around the edges of the watershed.

Land Use:

The dominant land use in this watershed is agriculture. Nearly half of the region is covered by cropland mixed with small amounts of pasture and abandoned fields. Picton is the largest community in the watershed.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2HE is 10,819 hectares, constituting approximately 10% of the watershed's total area. Over one third of these lands (3,695 ha) are located in provincially significant life science ANSIs, of which 267 hectares coincide



with provincial parks. There are 714 hectares of protected federal lands, 1,055 hectares in provincially protected areas and 444 hectares of Conservation Authority lands. There are approximately 1,085 hectares of protected coastal areas, 1,210 hectares of protected stream systems, 273 hectares of protected lakes and 7,932 hectares of protected wetlands.

Species and Vegetation Community Targets:

Eight species targets occur in watershed 2HE, including the primary target Ram's-head Lady's-slipper (*Cypripedium arietinum*) and the secondary targets Spiny Softshell (*Apalone spinifera*), Black Tern (*Chlidonias niger*), Northern Map Turtle (*Graptemys geographica*), Swamp Rose-mallow (*Hibiscus moscheutos*), Least Bittern (*Ixobrychus exilis*), King Rail (*Rallus elegans*) and Stinkpot (*Sternotherus odoratus*). Graminoid Coastal Meadow Marsh is a rare vegetation community known to occur in this watershed.

Conservation Blueprint:

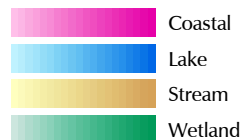
The Conservation Blueprint includes 1,758 hectares of coastal areas, 13,375 hectares of stream systems, 2,063 hectares of lakes and 8,904 hectares of wetlands. The Conservation Blueprint also includes all of the known occurrences of Ram's-head Lady's-slipper and occurrences for five of the seven secondary species targets. The portfolio also contains both occurrences of Graminoid Coastal Meadow Marsh.

Great Lakes Conservation Blueprint for Biodiversity

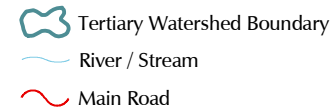
PRINCE EDWARD BAY WATERSHED 2HE



Aquatic Ecological Systems



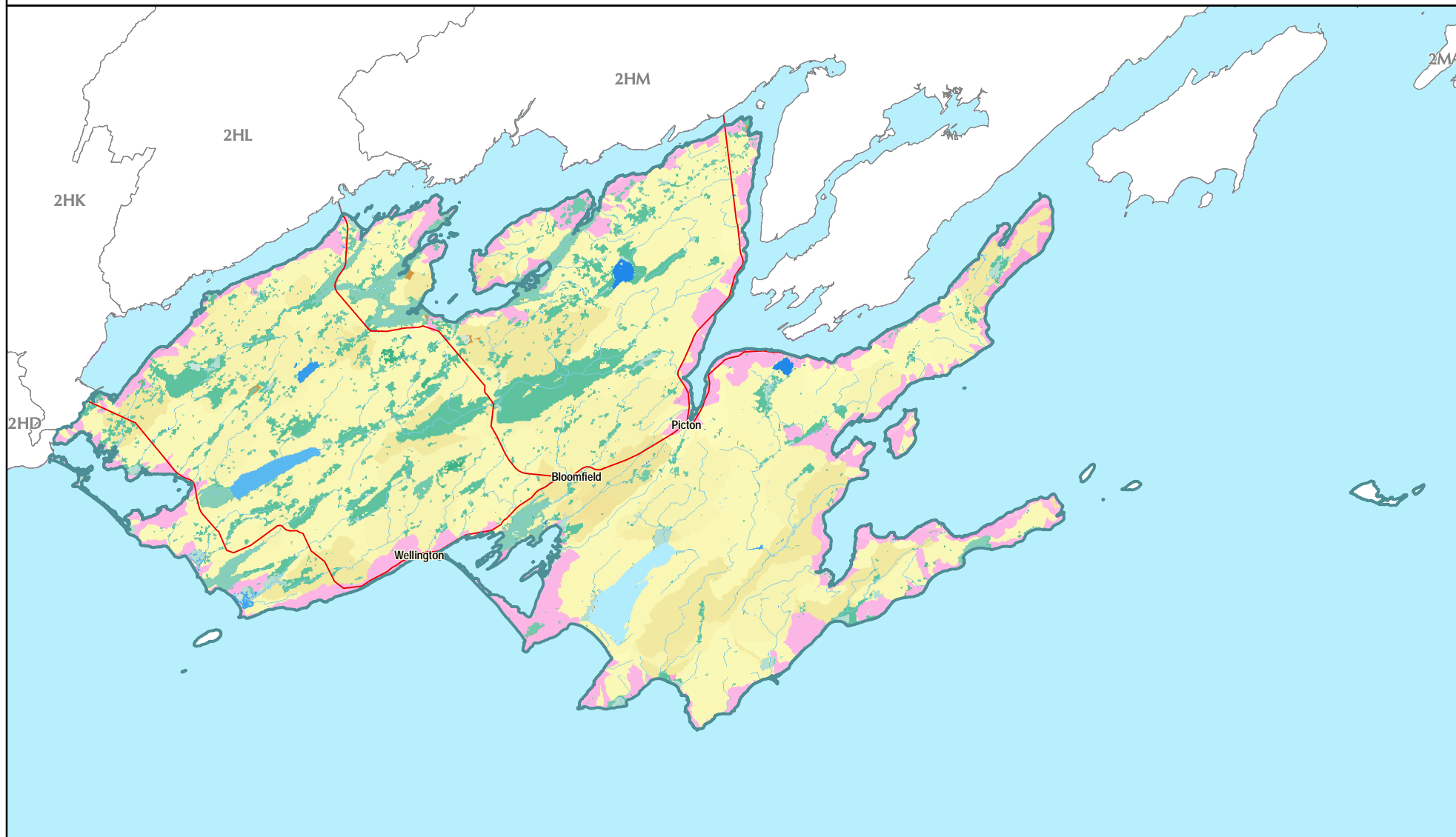
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

PRINCE EDWARD BAY WATERSHED 2HE



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

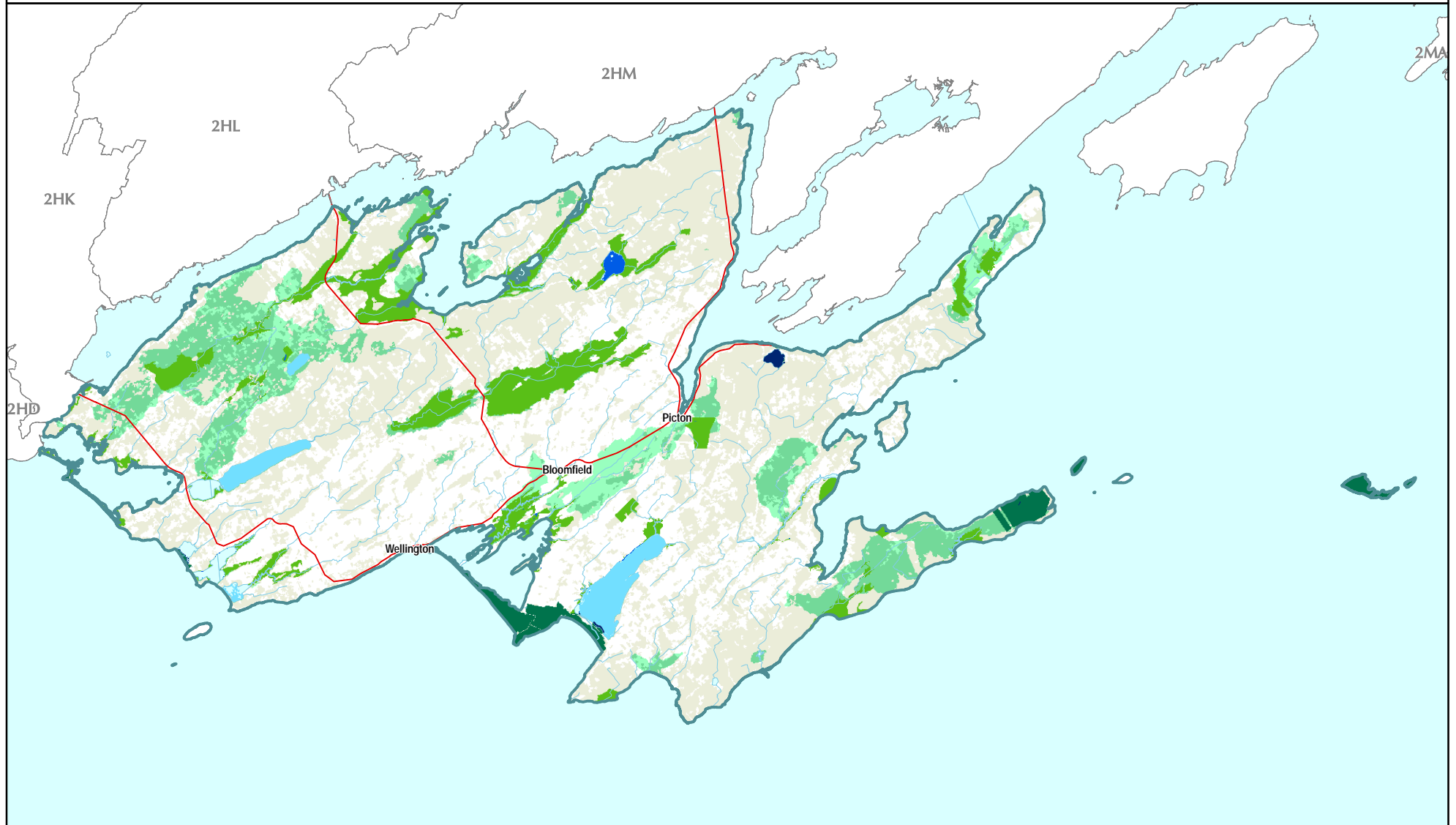
- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Documented extant vegetation communities and significant species information for tertiary watershed 2HE

# of pops in 2HE	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federal lands	% of pops in Parks and PAs	% of pops in PS LS-ANSIs	% of pops in CAs	# of s in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species																
8	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	13	0	13	4	50	7	88	secondary
1	<i>Rallus elegans</i>	King Rail	G4G5	S2B,SZN	END	END-R	SAR	0	0	0	0	0	0	0	0	secondary
4	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	25	25	0	0	2	50	4	100	secondary
4	<i>Graptemys geographica</i>	Northern Map Turtle	G5	S3	SC	SC	SAR	0	25	0	0	1	25	1	25	secondary
5	<i>Sternotherus odoratus</i>	Stinkpot	G5	S3	THR	THR	SAR	0	20	20	0	2	40	2	40	secondary
2	<i>Apalone spinifera</i>	Spiny Softshell	G5	S3	THR	THR	SAR	0	0	0	0	0	0	0	0	secondary
1	<i>Hibiscus moscheutos</i>	Swamp Rose-mallow	G5	S3	SC	SC	SAR	0	100	0	0	1	100	1	100	secondary
1	<i>Cypripedium arietinum</i>	Ram's-head Lady's-slipper	G3	S3			GRank	0	0	0	0	0	0	1	100	2
Communities																
2	Graminoid Coastal Meadow Marsh Type		G2?	S2			GRank	0	50	50	0	1	50	2	100	all viable

Ecological systems summary for tertiary watershed 2HE

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	14058.94	12.93	1085.69	7.72	1758.81	12.51	1699.25	12.09
Stream Systems	76169.81	70.04	1210.69	1.59	13375.81	17.56	9027.25	11.85
Lake Systems	2145.81	1.97	273.25	12.73	2063.31	96.16	2063.31	96.16
Wetland Systems	15807.00	14.54	7932.19	50.18	8904.88	56.34	8904.88	56.34
Tertiary watershed	108749.19	100.00	10819.00	9.95	26420.00	24.29	22011.81	20.24

Ecological systems details for tertiary watershed 2HE

System Integer	# of patches in 2HE	Total area (ha) in 2HE	% of total area in 2HE	# of patches in federal lands	Total area (ha) in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																		
Coastal Systems																		
101	13	43.31	0.04	1	2.19							1	2.19	5.05	3	14.19	14.19	32.76
104	28	110.38	0.10	3	7.25	2	6.69	2	8.88	2	3.25	8	25.38	22.99	10	26.56	26.56	24.07
101	13	43.31	0.04	1	2.19							1	2.19	5.05	3	14.19	14.19	32.76

System Integer	# of patches in ZHE	Total area (ha) in ZHE	% of total area in ZHE	# of patches in federal lands	Total area (ha) in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																		
Coastal Systems continued																		
104	28	110.38	0.10	3	7.25	2	6.69	2	8.88	2	3.25	8	25.38	22.99	10	26.56	26.56	24.07
105	154	677.06	0.62	3	0.31	1	3.06	6	2.00	4	1.25	54	11.19	1.65	81	12.88	12.88	1.90
106	2	12.25	0.01					1	0.25			1	0.25	2.04	2	12.25	12.25	100.00
107	42	100.75	0.09			7	26.25					18	27.44	27.23	58	32.50	32.50	32.26
108	88	339.13	0.31	10	15.94	3	45.31	2	20.56	3	7.75	47	74.88	22.08	97	78.25	78.25	23.07
113	131	92.69	0.09	1	0.06			35	4.56			110	13.81	14.90	142	17.44	17.44	18.81
114	7	9.19	0.01									5	0.38	4.08	6	9.00	9.00	97.96
115	28	11.94	0.01									25	3.31	27.75	34	11.63	11.63	97.38
116	55	46.50	0.04	1	0.06			9	0.81			24	2.94	6.32	41	9.88	9.88	21.24
125	54	580.75	0.53									38	3.44	0.59	44	7.81	7.81	1.35
126	16	408.25	0.38									5	0.31	0.08	10	89.50	61.88	21.92
127	261	10472.13	9.63	8	90.13	28	521.50	28	186.00	6	14.00	187	689.44	6.58	251	1206.19	1174.25	11.52
199	155	1143.25	1.05	6	81.88	6	95.06	8	101.50	2	26.06	60	229.81	20.10	81	229.81	229.81	20.10
Stream Systems																		
201	25	1746.44	1.61			3	2.25	3	20.94	2	0.25	11	23.75	1.36	16	235.88	199.38	13.51
202	3	451.50	0.42							2	134.38	2	134.38	29.76	3	451.50	277.44	100.00
203	121	27112.13	24.93	3	241.75	20	6.13	16	57.25	3	30.00	151	344.44	1.27	170	1041.75	1022.25	3.84
204	1	32.63	0.03											0.00				0.00
205	146	15646.31	14.39	2	29.19	3	122.94	100	78.88	2	15.88	394	274.06	1.75	470	543.81	543.81	3.48
206	34	11948.75	10.99					13	12.06	2	62.19	51	77.69	0.65	35	2388.69	1739.69	19.99
208	36	5572.44	5.12					11	50.19	4	100.00	119	160.50	2.88	64	3417.75	2637.56	61.33
209	1	11.94	0.01											0.00				0.00
210	5	344.69	0.32									5	0.31	0.09	11	309.69	194.50	89.85
211	11	699.19	0.64							1	0.13	26	2.81	0.40	20	436.44	146.44	62.42
213	14	1017.88	0.94	1	13.13			10	88.25			19	102.25	10.05	6	651.06	337.44	63.96
214	12	280.75	0.26					2	15.19			23	17.88	6.37	20	213.44	60.25	76.02
215	40	9420.38	8.66					20	35.19	1	3.63	228	65.88	0.70	264	1953.50	1624.44	20.74
216	14	560.19	0.52									37	6.63	1.18	20	410.88	31.00	73.35

System Integer	# of patches in 2HE	Total area (ha) in 2HE	% of total area in 2HE	# of patches in federal lands	Total area (ha) in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																		
Stream Systems continued																		
217	3	980.94	0.90											0.00	2	980.50	134.38	99.96
218	5	343.50	0.32					1	0.06			2	0.13	0.04	4	340.94	78.69	99.25
Lake Systems																		
302	8	1121.88	1.03			2	10.81					15	14.06	1.25	2	1121.13	1121.13	99.93
322	16	540.94	0.50									9	1.06	0.20	16	540.06	540.06	99.84
325	14	4.75	0.00							1	0.44	1	0.44	9.21	1	0.44	0.44	9.21
326	61	104.25	0.10	1	1.19	5	4.81			2	0.75	11	7.13	6.83	23	61.06	61.06	58.57
328	70	99.56	0.09							1	1.63	2	1.75	1.76	5	91.13	91.13	91.53
331	101	263.13	0.24			1	89.50	1	152.38	1	2.94	3	244.81	93.04	7	245.50	245.50	93.30
332	4	0.88	0.00											0.00				0.00
333	16	6.31	0.01									3	3.50	55.45	3	3.50	3.50	55.45
334	8	1.56	0.00											0.00				0.00
335	1	0.19	0.00											0.00				0.00
336	14	2.00	0.00									2	0.50	25.00	2	0.50	0.50	25.00
Wetland Systems																		
401	133	279.00	0.26	2	2.06	1	0.88	6	16.19	3	4.50	78	147.13	52.73	99	165.13	165.13	59.18
402	120	1323.88	1.22	4	14.94	4	13.31	7	30.25	2	13.44	91	919.50	69.46	145	1035.38	1035.31	78.21
404	8	2872.63	2.64	6	2.13			2	881.56			10	2644.81	92.07	20	2871.63	2871.63	99.97
405	742	2292.81	2.11	5	6.69	6	59.31	42	77.38	6	5.38	129	306.00	13.35	160	430.31	430.31	18.77
406	360	8822.94	8.11			1	0.25	14	1852.56	5	12.75	106	3910.19	44.32	158	4273.94	4273.94	48.44
407	36	63.69	0.06							3	3.94	9	4.44	6.97	14	9.94	9.94	15.60
408	14	152.06	0.14									1	0.13	0.08	9	118.56	118.56	77.97
Non-Target Ecological Systems																		
Coastal Systems																		
124	10	11.38	0.01			1	0.75					2	0.94	8.24	2	0.94	0.94	8.24
Unclassified Ecological Systems																		
2	1	0.19	0.00											0.00				0.00
3	3	0.38	0.00											0.00				0.00
5	277	498.31	0.46	7	205.50	4	45.25	13	0.88	1	0.06	92	285.81	57.36	104	285.81	285.81	57.36
6	39	69.31	0.06	1	0.13	3	1.38	9	1.69			23	31.38	45.27	31	31.38	31.38	45.27

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Gull

Tertiary Watershed 2HF

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area: 324,375 hectares (801,530 acres)

Land Ownership: Public Land ~ 15%
Private Land ~ 85%

Planning Authority: 75.5% Haliburton County
20% City of Kawartha Lakes
4% Peterborough County
0.5% Muskoka District

General Description:

This inland tertiary watershed 2HF drains into Lake Ontario and straddles the Canadian Shield and southern Ontario. There are approximately 254,601 hectares of stream systems, 37,492 hectares of lakes and 30,647 hectares of wetlands. The Trent-Severn Waterway and Balsam Lake are located in the southern end of this watershed. The area contains many lakes such as Kennisis, Redstone, Kashagawigamog and Gull Lakes. The majority of the watershed remains in a state of natural cover and is dominated by mixed forest and dense deciduous forest. Dense and sparse coniferous forests are also present. Deciduous swamp, coniferous swamp and treed bog occur throughout, and small amounts of alvar are scattered along the southwestern edge of the watershed.

Land Use:

There is considerable tourism and cottage activity in the region and a small amount of forestry in the northern half of the watershed. Some agricultural lands occur in the southern portion. Areas of developed land are scattered throughout the region. There are no large cities, but smaller communities include Haliburton, Fenelon Falls and Minden.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2HF is 15,415 hectares, constituting approximately 4.8% of the watershed's



total area. The majority of these lands (11,473 ha) are located in provincial protected areas. Over 828 hectares are provincially significant life science ANSIs, of which 698 hectares coincide with conservation reserves. There are approximately 9,805 hectares of protected stream systems, 884 hectares of protected lakes and 4,583 hectares of protected wetlands.

Species and Vegetation Community Targets:

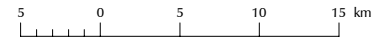
Engelmann's Quillwort (*Isoetes engelmannii*) and Ebony Boghaunter (*Williamsonia fletcheri*) are the primary species targets in the watershed. Spotted Turtle (*Clemmys guttata*), Wood Turtle (*Glyptemys insculpta*), and Least Bittern (*Ixobrychus exilis*) are secondary targets. There are known occurrences for Spotted Turtle and Least Bittern in conservation lands. Atlantic Coastal Plain Shallow Marsh is the only rare vegetation community known to occur in this watershed.

Conservation Blueprint:

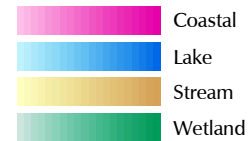
The Conservation Blueprint includes 25,732 hectares of stream systems, 14,494 hectares of lakes and 5,811 hectares of wetlands. The Conservation Blueprint includes all occurrences of species targets, with the exception of Wood Turtle. The portfolio also includes all of the known occurrences of Atlantic Coastal Plain Shallow Marsh.

Great Lakes Conservation Blueprint for Biodiversity

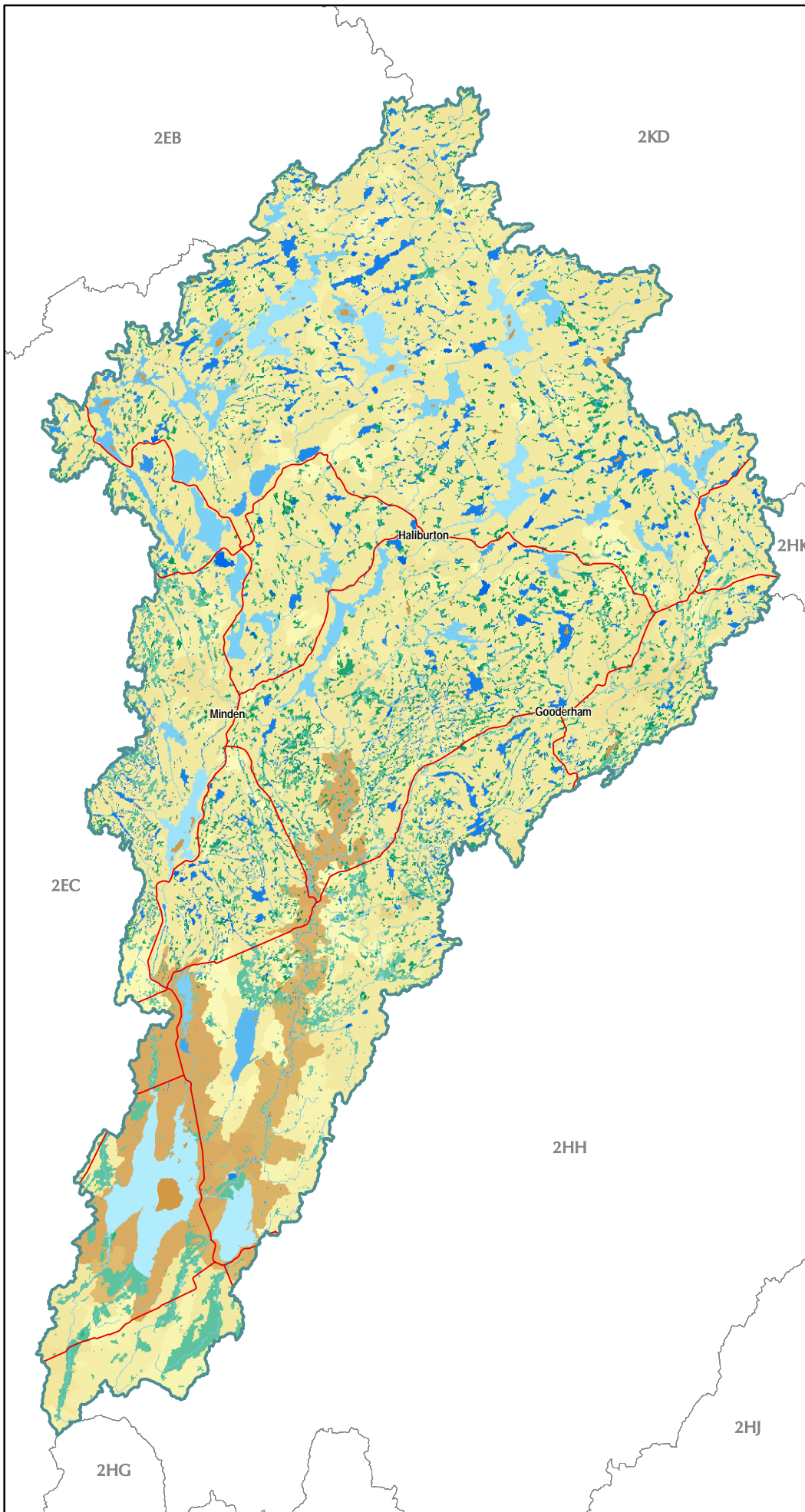
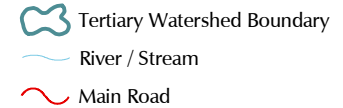
GULL WATERSHED 2HF



Aquatic Ecological Systems



Other Information



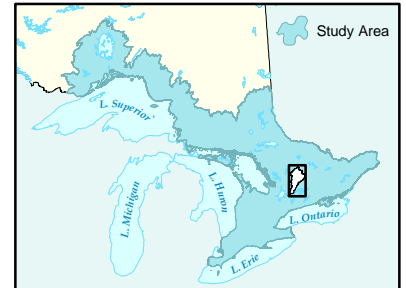
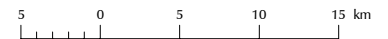
Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Great Lakes Conservation Blueprint for Biodiversity

GULL WATERSHED 2HF

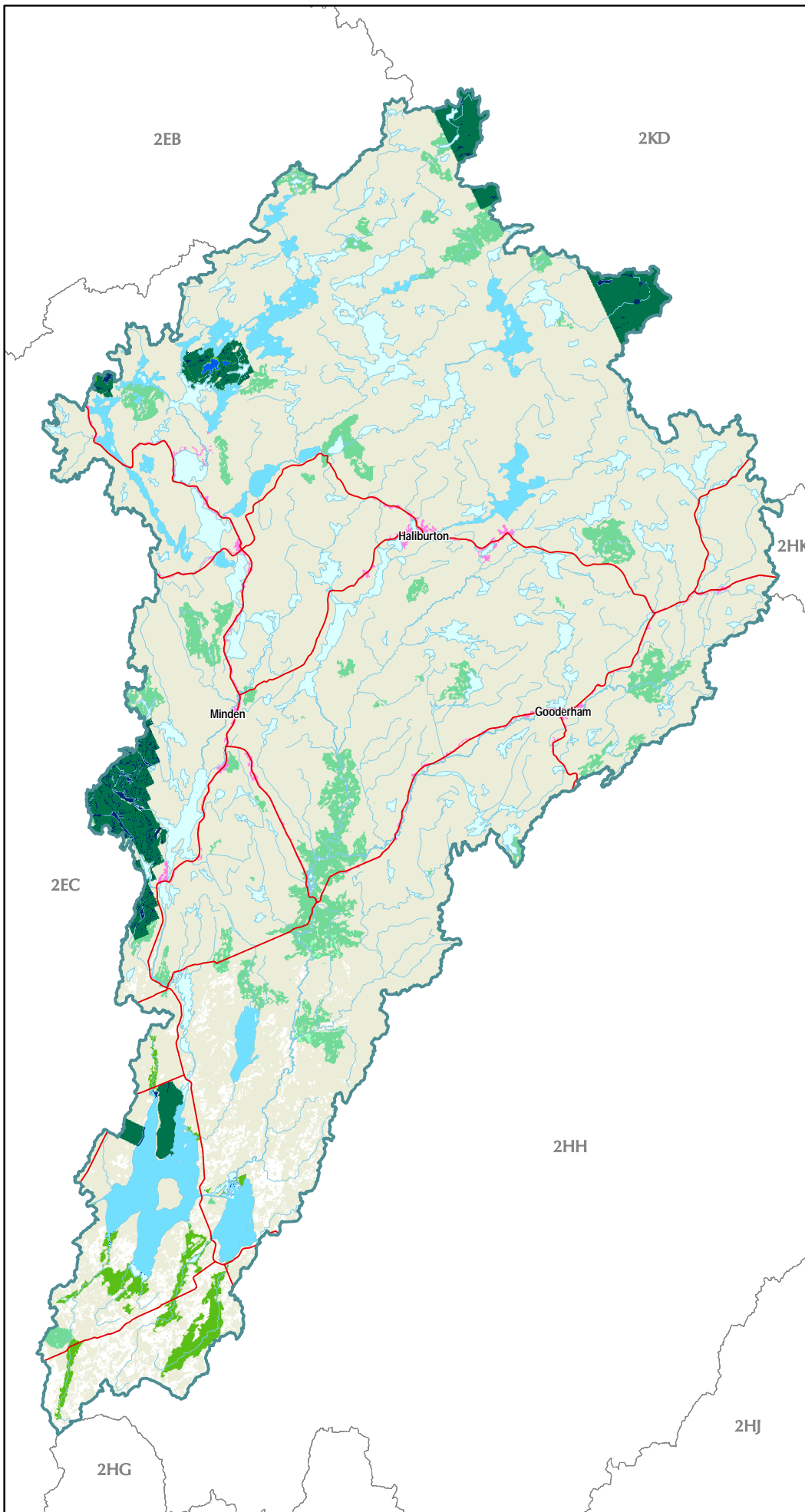


Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Documented extant vegetation communities and significant species information for tertiary watershed 2HF

# of pops in 2HF	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in Parks and PAs	% of pops in Parks and PAs	# of pops in PS LS-ANSIs	% of pops in PS LS-ANSIs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species																
1	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	0	0	0	1	100	1	100	secondary
1	<i>Clemmys guttata</i>	Spotted Turtle	G5	S3	END	SC	SAR	1	100	0	0	1	100	1	100	secondary
1	<i>Glyptemys insculpta</i>	Wood Turtle	G4	S2	SC	END	SAR	0	0	0	0	0	0	0	0	secondary
1	<i>Williamsonia fletcheri</i>	Ebony Boghaunter	G3G4	S2			GRank	0	0	0	0	0	0	1	100	2
1	<i>Isoetes engelmannii</i>	Engelmann's Quillwort	G4	S1	END	END	SAR	0	0	0	0	0	0	1	100	3
Communities																
7	Atlantic Coastal Plain Shallow Marsh Type		G2?	S3			GRank	2	29	2	29	2	29	7	100	all viable

Ecological systems summary for tertiary watershed 2HF

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stream Systems	254601.25	78.49	9805.19	3.85	25732.81	10.11	25512.63	10.02
Lake Systems	37492.00	11.56	884.69	2.36	14494.63	38.66	14494.63	38.66
Wetland Systems	30647.25	9.45	4583.38	14.96	5811.19	18.96	5811.19	18.96
Tertiary watershed	324375.25	100.00	15415.81	4.75	46181.44	14.24	45961.25	14.17

Ecological systems details for tertiary watershed 2HF

System Integer	# of patches in 2HF	Total area (ha) in 2HF	% of total area in 2HF	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																
Stream Systems																
201	11	658.06	0.20			0.00			0.00			0.00	10	498.75	459.13	75.79
202	2	185.63	0.06			0.00			0.00			0.00	3	185.63	171.44	100.00
203	121	4892.69	1.51			0.00			0.00	9	0.81	0.02	21	817.50	809.38	16.71
204	22	1408.63	0.43			0.00			0.00			0.00	3	966.63	966.63	68.62
205	74	3000.81	0.93			0.00			0.00			0.00	2	1074.75	1074.75	35.82
206	19	2466.63	0.76			0.00			0.00	71	6.63	0.27	91	228.25	204.88	9.25
207	2	2.19	0.00			0.00			0.00			0.00				0.00

System Integer	# of patches in 2HF	Total area (ha) in 2HF	% of total area in 2HF	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Stream Systems continued																
208	129	7597.25	2.34	3	46.44	0.61			0.00	16	47.81	0.63	25	379.50	379.50	5.00
209	214	11748.81	3.62	14	160.63	1.37	2	4.31	0.04	14	161.06	1.37	24	909.06	909.06	7.74
210	36	7176.50	2.21			0.00			0.00	17	1.31	0.02	24	742.81	742.81	10.35
211	104	8131.19	2.51	4	22.56	0.28			0.00	4	22.56	0.28	10	383.69	383.69	4.72
212	30	2749.75	0.85	2	240.19	8.73			0.00	2	240.19	8.73	11	1638.25	1638.25	59.58
213	788	82389.88	25.40	80	3188.00	3.87	2	395.19	0.48	79	3227.88	3.92	163	4281.06	4281.06	5.20
214	557	74928.06	23.10	41	1879.50	2.51	8	211.13	0.28	41	1888.75	2.52	74	1915.00	1915.00	2.56
215	30	2761.38	0.85	1	7.56	0.27			0.00	194	26.94	0.98	231	56.00	56.00	2.03
216	34	3165.88	0.98	2	623.19	19.68			0.00	64	629.38	19.88	82	1695.44	1656.13	53.55
217	124	11658.31	3.59	10	2249.19	19.29			0.00	10	2249.19	19.29	16	2741.63	2741.63	23.52
218	80	5890.94	1.82	3	64.88	1.10			0.00	19	66.38	1.13	34	843.38	843.38	14.32
219	1	0.06	0.00			0.00			0.00			0.00				0.00
220	4	900.31	0.28			0.00			0.00			0.00	5	899.94	899.94	99.96
221	11	40.69	0.01	1	0.06	0.15			0.00	1	0.06	0.15				0.00
226	2	125.63	0.04			0.00			0.00			0.00	2	125.56	125.56	99.95
227	5	236.81	0.07			0.00			0.00			0.00				0.00
237	1	0.88	0.00			0.00			0.00			0.00				0.00
238	12	181.88	0.06			0.00			0.00			0.00	4	18.25	18.25	10.03
241	18	1092.19	0.34			0.00			0.00	48	4.94	0.45	59	249.19	202.69	22.82
247	49	7411.31	2.28			0.00			0.00	54	5.38	0.07	85	1110.56	1066.63	14.98
248	1	40.94	0.01			0.00			0.00			0.00				0.00
250	75	13743.13	4.24	4	1188.19	8.65			0.00	178	1225.06	8.91	243	3971.13	3966.00	28.90
251	2	2.00	0.00			0.00			0.00			0.00				0.00
252	1	5.00	0.00			0.00			0.00			0.00				0.00
Lake Systems																
302	20	6038.06	1.86	2	26.31	0.44			0.00	26	28.19	0.47	24	6034.75	6034.75	99.95
309	11	5698.81	1.76			0.00			0.00			0.00	21	3468.25	3468.25	60.86
315	36	8742.25	2.70			0.00			0.00			0.00	16	946.31	946.31	10.82
317	319	184.44	0.06			0.00			0.00			0.00	17	2.81	2.81	1.52
320	9	1181.69	0.36			0.00			0.00			0.00	12	1181.00	1181.00	99.94
322	3	1089.50	0.34			0.00			0.00			0.00	3	1089.38	1089.38	99.99

System Integer	# of patches in 2HF	Total area (ha) in 2HF	% of total area in 2HF	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Lake Systems continued																
325	29	24.75	0.01			0.00			0.00	4	0.31	1.26	4	0.31	0.31	1.26
326	325	842.19	0.26	3	1.44	0.17			0.00	4	1.50	0.18	7	140.75	140.75	16.71
327	24	20.13	0.01	5	9.25	45.96			0.00	6	9.31	46.27	11	9.31	9.31	46.27
328	39	18.06	0.01	1	3.56	19.72			0.00	1	3.56	19.72	1	3.56	3.56	19.72
329	461	891.88	0.27	109	139.81	15.68	9	39.13	4.39	109	140.19	15.72	197	281.25	281.25	31.53
330	183	251.63	0.08			0.00			0.00			0.00	7	2.50	2.50	0.99
331	120	287.75	0.09	2	1.06	0.37			0.00	2	1.06	0.37	6	133.00	133.00	46.22
332	38	42.88	0.01	3	0.56	1.31			0.00	3	0.56	1.31	4	0.56	0.56	1.31
333	3595	9845.69	3.04	495	536.75	5.45	15	129.19	1.31	496	647.31	6.57	857	1021.63	1021.63	10.38
334	182	199.00	0.06	20	25.25	12.69	2	0.94	0.47	20	25.31	12.72	25	31.25	31.25	15.70
335	66	50.06	0.02	1	0.44	0.87			0.00	1	0.44	0.87	4	3.00	3.00	5.99
336	1183	2083.25	0.64	55	26.88	1.29	6	4.25	0.20	54	26.94	1.29	60	145.00	145.00	6.96
Wetland Systems																
401	36	51.31	0.02	4	4.50	8.77			0.00	4	6.94	13.52	11	11.56	11.56	22.53
402	44	366.00	0.11	2	0.31	0.09			0.00	8	46.75	12.77	21	107.88	107.88	29.47
404	3	0.50	0.00			0.00			0.00			0.00				0.00
405	937	2182.19	0.67	25	50.31	2.31			0.00	33	68.81	3.15	38	68.75	68.75	3.15
406	970	12120.69	3.74	63	422.88	3.49			0.00	82	4012.63	33.11	116	4829.25	4829.25	39.84
407	3	16.38	0.01			0.00			0.00			0.00				0.00
408	3	111.06	0.03			0.00			0.00	1	7.31	6.58	4	111.06	111.06	100.00
409	618	1451.94	0.45	9	16.31	1.12	3	3.00	0.21	10	34.69	2.39	20	39.44	39.44	2.72
410	650	3054.38	0.94	22	44.44	1.45			0.00	22	44.44	1.45	27	281.44	281.44	9.21
Non-Target Ecological Systems																
Wetland Systems																
411	1729	2193.50	0.68	68	67.69	3.09	8	4.63	0.21	69	68.38	3.12	79	68.38	68.38	3.12
412	3148	9099.31	2.81	147	293.44	3.22	5	8.19	0.09	147	293.44	3.22	197	293.44	293.44	3.22
Unclassified Ecological Systems																
2	10	7.88	0.00	2	0.88	11.11			0.00	2	0.88	11.11	4	0.88	0.88	11.11
6	2045	1634.75	0.50	250	131.44	8.04	6	28.44	1.74	252	142.56	8.72	312	142.81	142.81	8.74

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Scugog

Tertiary Watershed 2HG

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area: 100,425 hectares (248,150 acres)

Land Ownership: Public Land ~ 10%
Private Land ~ 89%
First Nations Lands ~ 1%

Planning Authority: 51% City of Kawartha Lakes
49% Durham Region

General Description:

Tertiary watershed 2HG is an inland watershed that drains into northern Lake Ontario. There are approximately 78,304 hectares of stream systems, 6,305 hectares of lakes and 13,428 hectares of wetlands. This small watershed contains Lake Scugog and the Scugog River. Mixed forest, dense coniferous and deciduous forest, and sparse deciduous forest comprise the majority of the remaining natural cover in the region. The wetlands in the watershed include deciduous and coniferous swamps and marsh.

Land Use:

The dominant land use in this watershed is agriculture. A small amount of development is also present in the southwest, as is a patch of conifer plantation. Port Perry is the watershed's largest community, although many smaller communities are present, including Prince Albert, Janetville, Seagrave and Oakwood.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2HG is 12,651 hectares, constituting approximately 12.6% of the



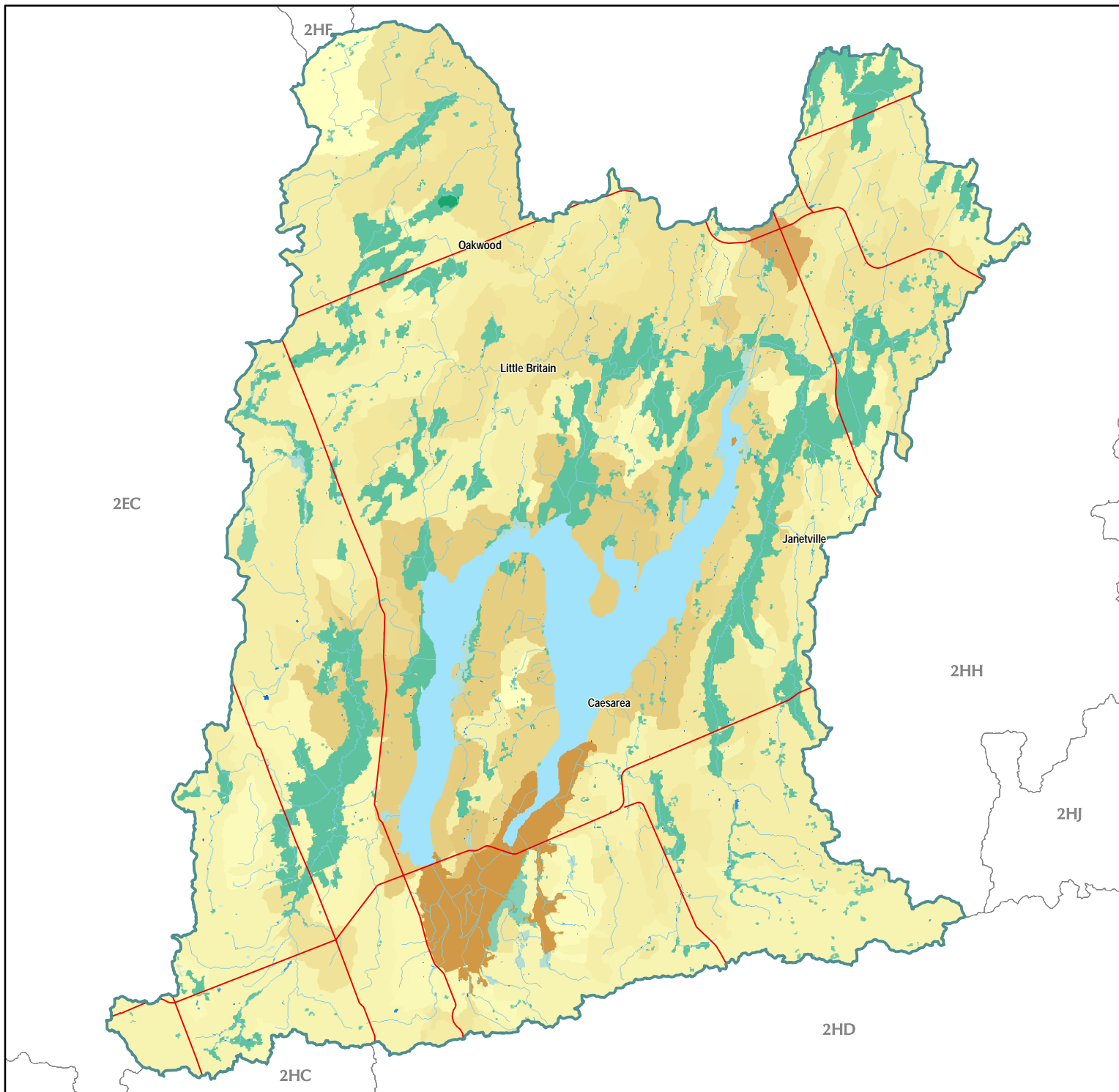
watershed's total area. The majority of these lands are located in provincially significant wetlands, and one-sixth are provincially significant life science ANSIs. There are approximately 532 hectares of protected stream systems, 289 hectares of protected lakes and 9,464 hectares of protected wetlands.

Species and Vegetation Community Targets:

Three rare secondary target species occur in watershed 2HG: Black Tern (*Chlidonias niger*), Least Bittern (*Ixobrychus exilis*) and King Rail (*Rallus elegans*). There are occurrences for all of these species in protected areas and conservation lands. There are no documented rare vegetation communities in this watershed.

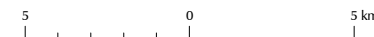
Conservation Blueprint:

The Conservation Blueprint includes 19,476 hectares of stream systems, 6,198 hectares of lakes and 9,944 hectares of wetlands. The Conservation Blueprint also includes the secondary target species occurrences that are located within conservation lands.

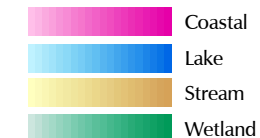


Great Lakes Conservation Blueprint for Biodiversity

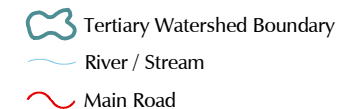
SCUGOG WATERSHED 2HG



Aquatic Ecological Systems



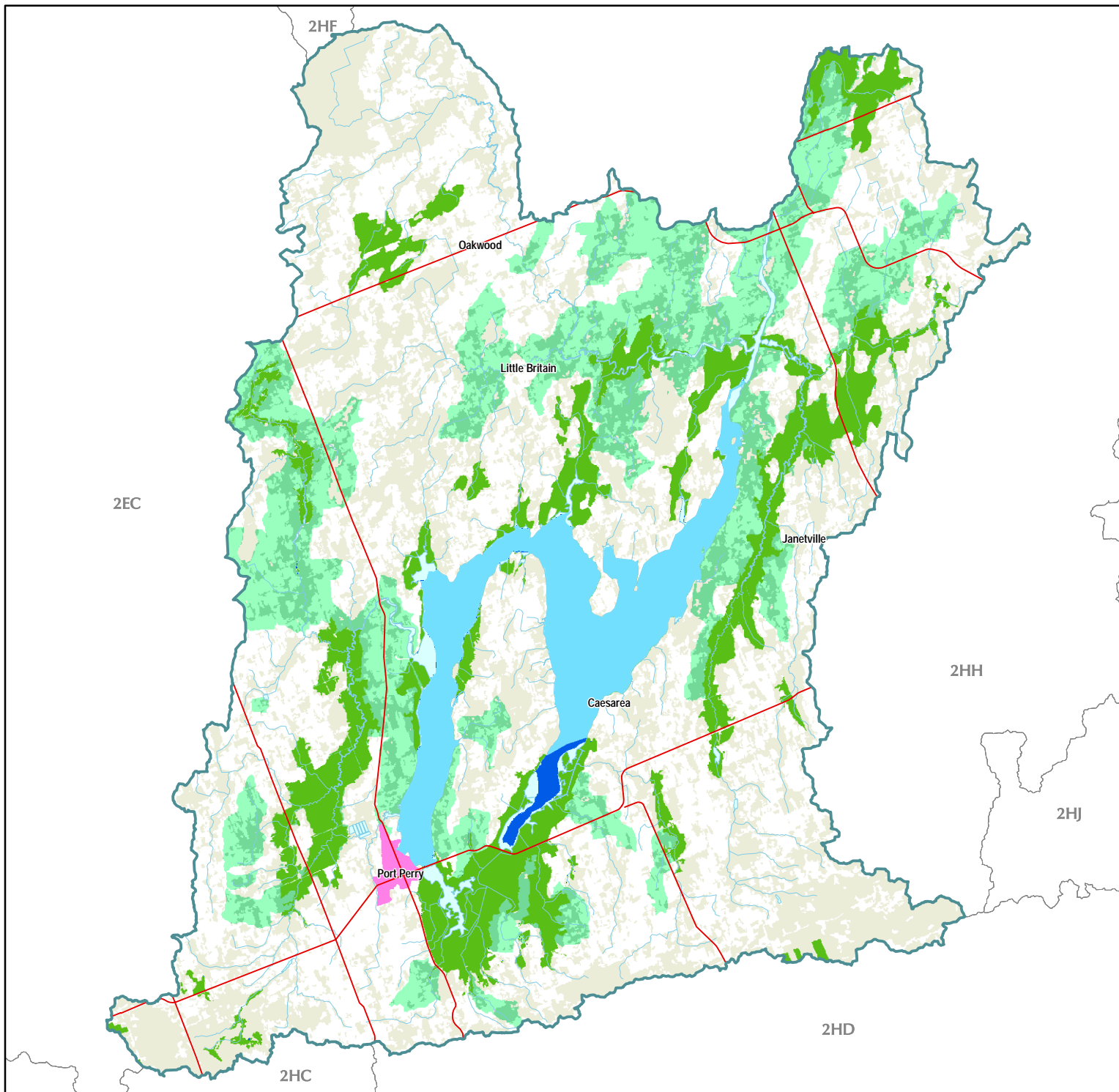
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

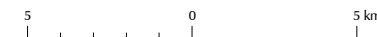
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Great Lakes Conservation Blueprint for Biodiversity

SCUGOG WATERSHED 2HG



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



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Documented extant significant species information for tertiary watershed 2HG

# of pops in 2HG	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in PS LS-ANSIs	% of pops in PS LS-ANSIs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species														
2	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	1	50	1	50	1	50	secondary
1	<i>Rallus elegans</i>	King Rail	G4G5	S2B,SZN	END	END-R	SAR	1	100	1	100	1	100	secondary
3	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	1	33	1	33	1	33	secondary

Ecological systems summary for tertiary watershed 2HG

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stream Systems	78304.31	77.97	532.75	0.68	19476.88	24.87	8490.94	10.84
Lake Systems	6305.38	6.28	289.31	4.59	6198.69	98.31	6198.69	98.31
Wetland Systems	13428.63	13.37	9464.50	70.48	9944.88	74.06	9944.88	74.06
Tertiary watershed	100425.81	100.00	12651.44	12.60	37985.31	37.82	26999.38	26.88

Ecological systems details for tertiary watershed 2HG

System Integer	# of patches in 2HG	Total area (ha) in 2HG	% of total area in 2HG	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																
Stream Systems																
202	7	945.75	0.94	11	65.06	6.88			0.00	17	66.13	6.99	12	865.75	417.44	91.54
203	21	2285.63	2.28	18	8.81	0.39			0.00	103	18.13	0.79	98	765.06	389.50	33.47
204	7	127.94	0.13			0.00			0.00			0.00	2	127.44	32.94	99.61
205	57	3354.63	3.34	30	25.38	0.76			0.00	256	45.88	1.37	286	63.31	63.31	1.89
206	44	12832.63	12.78	27	132.00	1.03	7	56.25	0.44	169	201.63	1.57	197	239.50	239.50	1.87
207	11	609.56	0.61			0.00			0.00	3	0.25	0.04	7	216.88	69.25	35.58
208	38	5169.13	5.15	1	3.94	0.08			0.00	118	14.50	0.28	108	781.75	290.81	15.12
210	58	14429.00	14.37			0.00			0.00	124	10.69	0.07	142	429.69	247.88	2.98
211	16	3608.13	3.59	6	10.19	0.28			0.00	163	36.06	1.00	32	3421.81	1398.31	94.84
212	8	179.44	0.18			0.00			0.00			0.00	2	0.13	0.06	0.07

System Integer	# of patches in 2HG	Total area (ha) in 2HG	% of total area in 2HG	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Stream Systems continued																
213	12	1983.50	1.98			0.00			0.00	44	3.88	0.20	42	817.00	302.13	41.19
214	2	94.81	0.09			0.00			0.00	1	0.06	0.07	2	94.81	51.44	100.00
215	24	1345.94	1.34			0.00			0.00	71	7.19	0.53	64	229.50	154.81	17.05
216	46	5634.69	5.61			0.00			0.00	153	15.13	0.27	156	149.44	84.94	2.65
217	21	1957.31	1.95	2	2.25	0.11			0.00	11	3.31	0.17	18	986.25	279.00	50.39
218	14	5975.94	5.95			0.00			0.00	71	6.94	0.12	56	2218.63	875.13	37.13
219	8	2663.25	2.65			0.00			0.00	141	12.94	0.49	49	2454.81	1172.69	92.17
221	11	978.81	0.97			0.00			0.00	57	5.44	0.56	47	678.50	266.25	69.32
222	5	1216.81	1.21			0.00			0.00	32	3.25	0.27	7	1129.94	451.88	92.86
224	18	651.25	0.65			0.00			0.00	30	2.56	0.39	30	539.19	201.50	82.79
225	4	164.63	0.16			0.00	2	0.13	0.08	2	0.13	0.08	4	164.63	55.31	100.00
226	27	2576.94	2.57	10	41.44	1.61			0.00	64	46.44	1.80	83	882.06	609.88	34.23
227	2	13.44	0.01			0.00			0.00	3	0.31	2.33	3	0.31	0.31	2.33
230	3	209.38	0.21			0.00			0.00	2	0.13	0.06	2	209.31	104.25	99.97
231	43	6360.13	6.33			0.00			0.00	231	21.94	0.34	204	1250.50	539.69	19.66
233	12	820.00	0.82			0.00			0.00	30	3.00	0.37	36	10.31	10.19	1.26
234	2	0.13	0.00			0.00			0.00			0.00				0.00
235	7	305.31	0.30	16	4.50	1.47			0.00	28	6.06	1.99	5	303.63	67.38	99.45
244	12	13.94	0.01			0.00			0.00	8	0.81	5.83	15	2.94	1.81	21.08
247	3	0.25	0.00			0.00			0.00			0.00				0.00
248	1	224.81	0.22			0.00			0.00			0.00	1	224.81	49.75	100.00
250	4	219.00	0.22			0.00			0.00			0.00	8	219.00	63.63	100.00
Lake Systems																
306	25	6197.56	6.17	1	279.63	4.51			0.00	54	286.00	4.61	29	6195.38	6195.38	99.96
325	3	0.56	0.00			0.00			0.00			0.00				0.00
326	31	13.38	0.01	2	0.19	1.40			0.00	6	0.44	3.27	6	0.44	0.44	3.27
327	10	1.75	0.00			0.00			0.00			0.00				0.00
328	41	11.25	0.01			0.00			0.00	3	0.88	7.78	3	0.88	0.88	7.78
329	4	3.19	0.00			0.00			0.00			0.00				0.00
330	49	15.63	0.02			0.00			0.00	6	0.75	4.80	6	0.75	0.75	4.80
331	102	17.00	0.02	1	0.13	0.74			0.00	8	0.75	4.41	8	0.75	0.75	4.41

System Integer	# of patches in 2HG	Total area (ha) in 2HG	% of total area in 2HG	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Lake Systems continued																
332	69	8.06	0.01			0.00			0.00	2	0.13	1.55	2	0.13	0.13	1.55
333	1	0.50	0.00			0.00			0.00			0.00				0.00
334	21	1.88	0.00			0.00			0.00			0.00				0.00
335	214	31.38	0.03	1	0.19	0.60			0.00	3	0.31	1.00	3	0.31	0.31	1.00
336	28	3.25	0.00	1	0.06	1.92			0.00	1	0.06	1.92	1	0.06	0.06	1.92
Wetland Systems																
401	38	49.19	0.05			0.00			0.00	9	5.31	10.80	10	5.31	5.31	10.80
402	42	490.25	0.49	1	12.56	2.56			0.00	35	355.31	72.48	42	444.50	444.50	90.67
404	1	179.69	0.18	19	46.38	25.81			0.00	20	46.50	25.88	3	179.69	179.69	100.00
405	283	687.69	0.68	24	27.00	3.93	2	5.38	0.78	42	73.00	10.62	48	74.25	74.25	10.80
406	210	11983.38	11.93	6	3.94	0.03			0.00	62	8949.13	74.68	84	9205.88	9205.88	76.82
407	2	1.13	0.00			0.00			0.00	1	0.06	5.56	1	0.06	0.06	5.56
409	1	2.00	0.00			0.00			0.00			0.00				0.00
410	2	35.31	0.04			0.00			0.00	2	35.19	99.65	2	35.19	35.19	99.65
Non-Target Ecological Systems																
Unclassified Ecological Systems																
2	2	1352.25	1.35			0.00			0.00			0.00				0.00
5	2	0.25	0.00			0.00			0.00			0.00				0.00
6	64	2387.25	2.38	2	2310.31	96.78			0.00	4	2364.88	99.06	12	2364.88	2364.88	99.06

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Kawartha Lakes

Tertiary Watershed 2HH

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area:	307,048 hectares (758,715 acres)
Land Ownership:	Public Land ~ 30%, Private Land ~ 65% First Nations Lands ~ 5%
Planning Authority:	65% Peterborough County 32% City of Kawartha Lakes 3% Haliburton County

General Description:

Tertiary watershed 2HH is an inland watershed that drains into Lake Ontario. There are approximately 227,666 hectares of stream systems, 34,249 hectares of lakes and 42,793 hectares of wetlands. This large watershed contains the Trent-Severn Waterway system, which includes Sturgeon Lake, Pigeon Lake, Buckhorn Lake, Chemong Lake, Stony Lake and Clear Lake. The Pigeon River is also present. Most of the landcover in this watershed remains in a natural state. Mixed forest is the dominant vegetation type, but there are also some scattered stands of pure coniferous and deciduous forest. Wetlands in the region include deciduous swamps, coniferous swamps, treed bogs and fens.

Land Use:

The dominant land use is agriculture; cropland and pastures dot the southern half of the region. Small patches of developed land are scattered throughout, with the city of Lindsay being the largest community in the watershed.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2HA is 54,471 hectares, constituting approximately 17.7% of the



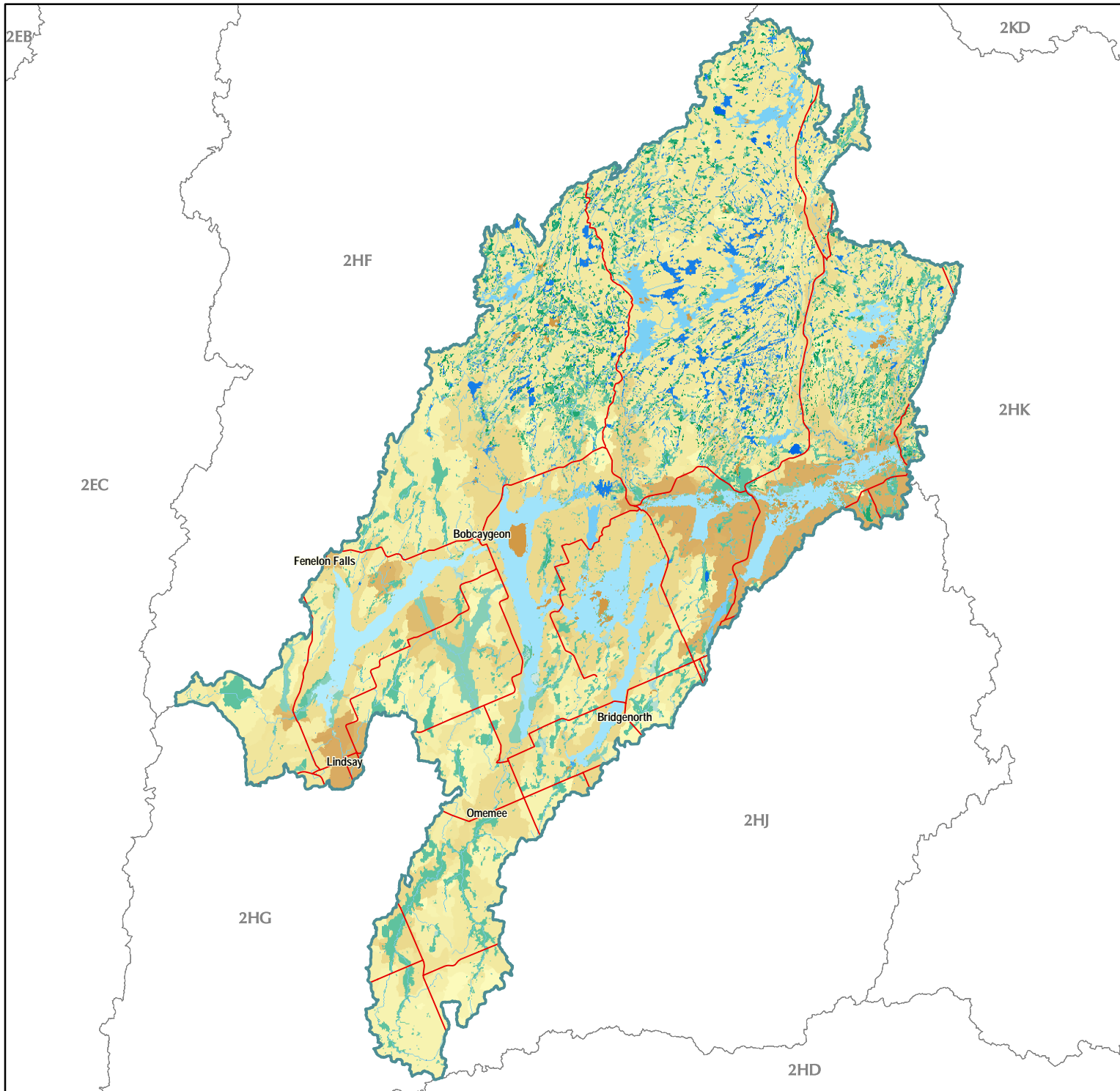
watershed's total area. The majority of these lands (40,114 ha) are located in provincially protected areas. Over 3,455 hectares are provincially significant life science ANSIs, of which 273 hectares coincide with provincial parks. There are approximately 31,798 hectares of protected stream systems, 4,784 hectares of protected lakes and 17,595 hectares of protected wetlands.

Species and Vegetation Community Targets:

Black Tern (*Chlidonias niger*), Wood Turtle (*Glyptemys insculpta*), Northern Map Turtle (*Graptemys geographica*), Least Bittern (*Ixobrychus exilis*) and Stinkpot (*Sternotherus odoratus*) are the species targets in this watershed. There are records of Black Tern, Least Bittern and Stinkpot from conservation lands. Slender Sedge Graminoid Fen and Sweet Gale Shrub Fen are targeted vegetation communities. Both communities are located in provincially significant life science ANSIs.

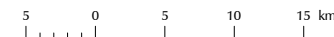
Conservation Blueprint:

The Conservation Blueprint includes 72,566 hectares of stream systems, 27,055 hectares of lakes and 18,787 hectares of wetlands. The Conservation Blueprint includes all of the known occurrences of species targets, with the exception of Wood Turtle. The portfolio also includes all of the known occurrences for Slender Sedge Graminoid Fen and Sweet Gale Shrub Fen.

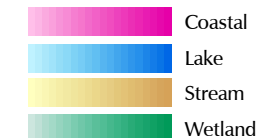


Great Lakes Conservation Blueprint for Biodiversity

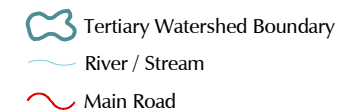
KAWARTHA LAKES WATERSHED 2HH



Aquatic Ecological Systems



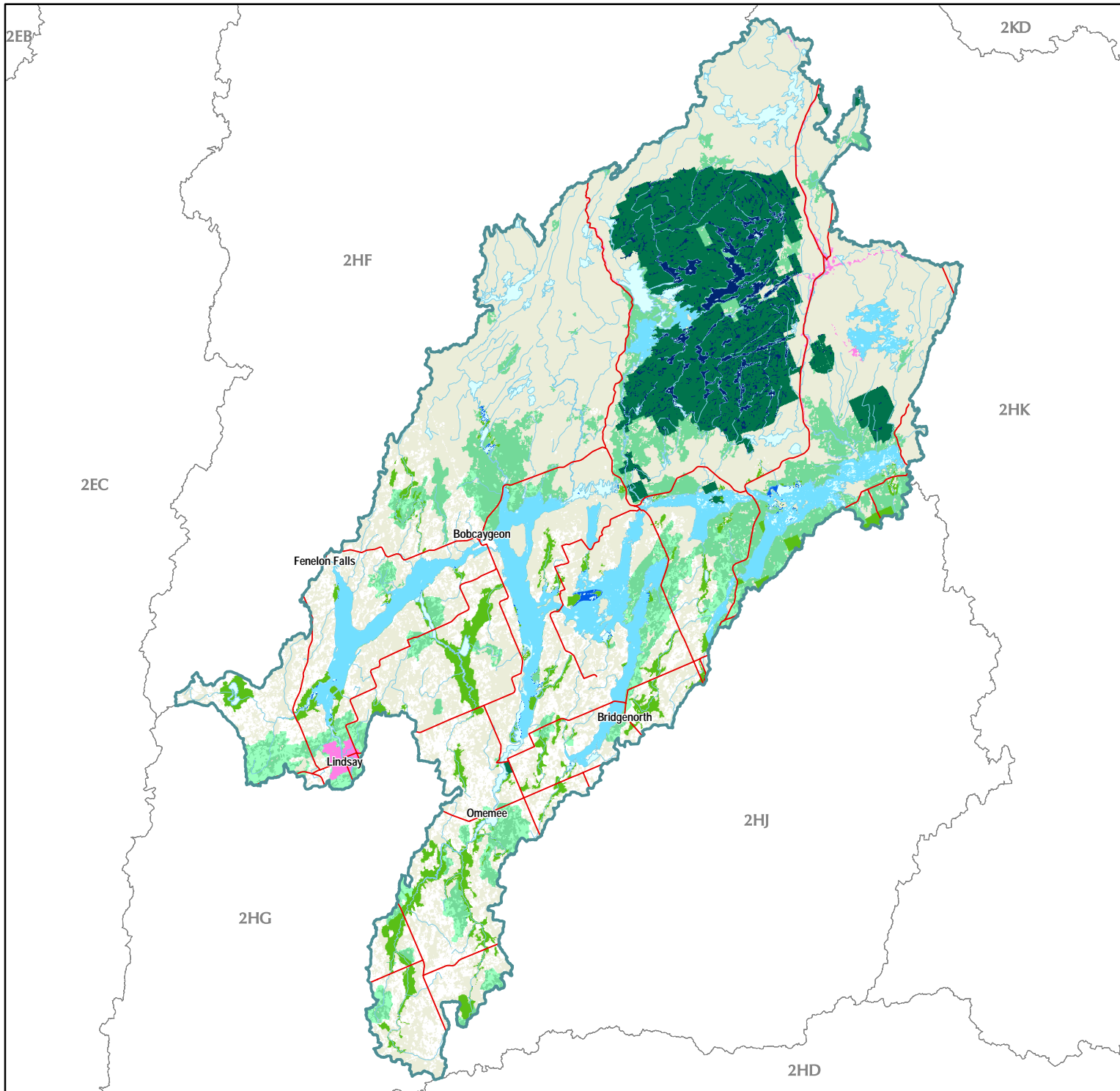
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

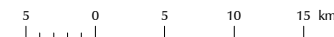
For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

KAWARTHA LAKES WATERSHED 2HH



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Documented extant vegetation communities and significant species information for tertiary watershed 2HH

# of pops in 2HH	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in Parks and PAs	% of pops in Parks and PAs	# of pops in PS LS-ANSIs	% of pops in PS LS-ANSIs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species																
4	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR		0	0	0	1	25	3	75	secondary
3	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR		0	0	0	2	67	3	100	secondary
1	<i>Glyptemys insculpta</i>	Wood Turtle	G4	S2	SC	END	SAR		0	0	0	0	0	0	0	secondary
3	<i>Graptemys geographica</i>	Northern Map Turtle	G5	S3	SC	SC	SAR		0	0	0	0	0	2	67	secondary
3	<i>Sternotherus odoratus</i>	Stinkpot	G5	S3	THR	THR	SAR	2	67	0	0	2	67	3	100	secondary
Communities																
2	Slender Sedge Graminoid Fen Type		G4G5	S5			high quality		0	2	100	2	100	2	100	secondary
1	Sweet Gale Shrub Fen Type		G?	S5			high quality		0	1	100	1	100	1	100	secondary

Ecological systems summary for tertiary watershed 2HH

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stream Systems	227666.50	74.15	31798.75	13.97	72566.06	31.87	62664.38	27.52
Lake Systems	34249.50	11.15	4784.44	13.97	27055.44	79.00	27055.44	79.00
Wetland Systems	42793.56	13.94	17595.00	41.12	18787.31	43.90	18787.31	43.90
Tertiary watershed	307048.88	100.00	54471.38	17.74	118702.00	38.66	108800.25	35.43

Ecological systems details for tertiary watershed 2HH

System Integer	# of patches in 2HH	Total area (ha) in 2HH	% of total area in 2HH	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																			
Stream Systems																			
201	1	1.06	0.00			0.00			0.00			0.00			0.00				0.00
202	13	1455.63	0.47			0.00	4	70.25	4.83			0.00	24	72.00	4.95	26	593.63	386.00	40.78
203	90	4315.56	1.41	13	337.94	7.83	4	1.00	0.02	3	11.69	0.27	146	363.31	8.42	173	806.81	797.19	18.70
204	1	23.06	0.01			0.00			0.00			0.00			0.00				0.00
205	70	4022.13	1.31	2	7.31	0.18	38	66.25	1.65	1	0.06	0.00	205	91.19	2.27	245	92.38	92.38	2.30

System Integer	# of patches in 2HH	Total area (ha) in 2HH	% of total area in 2HH	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																			
Stream Systems continued																			
206	66	9140.69	2.98			0.00	7	184.19	2.02	4	37.94	0.42	231	243.13	2.66	248	809.50	664.56	8.86
207	13	1396.81	0.45			0.00			0.00			0.00	4	0.50	0.04	9	946.25	439.06	67.74
208	152	9845.19	3.21	11	452.81	4.60	3	2.75	0.03			0.00	133	479.31	4.87	149	810.50	810.44	8.23
209	90	3061.63	1.00	47	1140.88	37.26			0.00			0.00	47	1140.88	37.26	75	1381.63	1381.63	45.13
210	96	19300.25	6.29			0.00			0.00			0.00	227	22.63	0.12	236	264.63	229.81	1.37
211	90	5321.44	1.73	7	129.38	2.43	6	31.00	0.58	4	3.56	0.07	195	180.13	3.38	221	853.25	850.75	16.03
212	11	234.13	0.08	2	82.63	35.29			0.00			0.00	2	82.63	35.29	5	170.38	170.38	72.77
213	793	45574.56	14.84	301	14952.94	32.81	2	25.06	0.05			0.00	303	14954.31	32.81	567	15602.06	15602.06	34.23
214	681	34261.75	11.16	265	10779.63	31.46	1	324.56	0.95			0.00	271	10785.75	31.48	405	13040.88	13030.13	38.06
215	44	4093.00	1.33	1	0.06	0.00	6	2.50	0.06			0.00	208	20.88	0.51	196	761.63	516.19	18.61
216	52	4376.63	1.43			0.00			0.00			0.00	176	16.25	0.37	105	1359.19	948.44	31.06
217	105	6479.50	2.11	24	297.13	4.59			0.00			0.00	49	304.38	4.70	65	3116.25	1590.63	48.09
218	50	3120.69	1.02			0.00	11	42.94	1.38	4	49.00	1.57	37	113.00	3.62	60	426.44	426.44	13.66
219	14	369.19	0.12			0.00			0.00			0.00	51	4.38	1.19	45	137.19	97.44	37.16
220	5	562.94	0.18	4	19.44	3.45			0.00			0.00	4	19.44	3.45	6	562.69	559.75	99.96
221	159	14733.56	4.80	14	351.25	2.38			0.00	5	62.06	0.42	179	444.38	3.02	217	705.38	705.38	4.79
222	19	1542.56	0.50			0.00			0.00			0.00	39	3.94	0.26	31	1241.44	673.13	80.48
224	154	24936.13	8.12	1	75.38	0.30	3	104.81	0.42	5	53.50	0.21	473	281.50	1.13	491	7075.06	4795.69	28.37
225	4	62.13	0.02			0.00			0.00			0.00	10	1.00	1.61	4	56.75	13.06	91.35
226	28	3373.19	1.10			0.00	5	23.00	0.68			0.00	75	89.94	2.67	35	2606.50	2532.63	77.27
227	100	6920.88	2.25	48	1390.25	20.09			0.00			0.00	65	1392.06	20.11	83	4019.38	3948.31	58.08
228	3	39.19	0.01	1	0.69	1.75			0.00			0.00	1	0.69	1.75	1	0.69	0.69	1.75
230	6	52.69	0.02			0.00			0.00			0.00	5	0.31	0.59	4	52.44	30.44	99.53
231	11	559.88	0.18			0.00	5	18.88	3.37			0.00	19	20.19	3.61	22	316.25	254.13	56.49
233	11	784.13	0.26	1	9.06	1.16			0.00			0.00	16	10.25	1.31	6	525.06	301.38	66.96
235	11	116.00	0.04			0.00			0.00			0.00	9	0.75	0.65	12	35.06	35.06	30.23
237	1	17.13	0.01			0.00			0.00			0.00	1	0.06	0.36	1	0.06	0.06	0.36
238	4	347.69	0.11			0.00			0.00			0.00	8	0.69	0.20	3	219.25	109.69	63.06
240	1	34.13	0.01			0.00			0.00			0.00			0.00				0.00
241	13	1291.81	0.42	1	8.25	0.64			0.00			0.00	28	11.44	0.89	22	476.94	370.69	36.92
243	1	32.06	0.01			0.00			0.00			0.00			0.00				0.00
244	23	1192.75	0.39			0.00			0.00			0.00	13	1.13	0.09	25	990.19	527.19	83.02
247	15	554.06	0.18			0.00			0.00			0.00	16	1.50	0.27	13	378.75	313.69	68.36
248	177	12080.94	3.93	15	136.88	1.13			0.00	17	485.00	4.01	180	643.56	5.33	86	10092.13	8873.31	83.54
250	1	1902.69	0.62			0.00			0.00			0.00	10	1.31	0.07	1	1902.69	517.38	100.00
251	1	136.81	0.04			0.00			0.00			0.00			0.00	1	136.81	69.25	100.00

System Integer	# of patches in 2HH	Total area (ha) in 2HH	% of total area in 2HH	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																			
Lake Systems																			
302	23	4370.69	1.42			0.00			0.00	3	3.63	0.08	30	6.44	0.15	66	4368.88	4368.88	99.96
306	232	15226.38	4.96	1	0.06	0.00	3	156.31	1.03	10	0.94	0.01	158	216.31	1.42	208	15164.94	15164.94	99.60
309	58	1315.13	0.43			0.00			0.00			0.00			0.00	39	1303.06	1303.06	99.08
315	67	4161.88	1.36	23	669.88	16.10	2	0.88	0.02			0.00	26	672.19	16.15	26	1642.06	1642.06	39.45
317	4	677.69	0.22			0.00			0.00			0.00			0.00	7	677.38	677.38	99.95
325	15	14.06	0.00	5	2.13	15.11			0.00			0.00	5	2.13	15.11	9	2.13	2.13	15.11
326	199	232.63	0.08	47	84.75	36.43			0.00			0.00	65	86.38	37.13	98	86.44	86.44	37.16
327	39	17.50	0.01	4	1.69	9.64			0.00			0.00	4	1.69	9.64	6	1.69	1.69	9.64
328	55	10.50	0.00			0.00			0.00			0.00	1	0.06	0.60	1	0.06	0.06	0.60
329	118	139.00	0.05	41	43.38	31.21			0.00			0.00	45	43.75	31.47	75	44.38	44.38	31.92
330	140	217.00	0.07	16	26.56	12.24			0.00			0.00	32	38.50	17.74	46	42.69	42.69	19.67
331	98	53.94	0.02	22	9.13	16.92			0.00	1	0.06	0.12	24	9.25	17.15	28	9.38	9.38	17.38
332	105	21.75	0.01	1	0.13	0.57			0.00	5	0.31	1.44	7	0.50	2.30	7	0.50	0.50	2.30
333	3506	6700.81	2.18	1583	3436.19	51.28	1	27.00	0.40			0.00	1617	3452.81	51.53	2762	3453.06	3453.06	51.53
334	91	42.88	0.01	33	14.31	33.38			0.00			0.00	33	14.31	33.38	35	14.31	14.31	33.38
335	124	73.69	0.02	6	1.13	1.53			0.00			0.00	8	1.25	1.70	11	5.63	5.63	7.63
336	1113	974.00	0.32	455	238.88	24.53			0.00			0.00	455	238.88	24.53	511	238.88	238.88	24.53
Wetland Systems																			
401	92	318.88	0.10	20	29.13	9.13			0.00	1	3.56	1.12	84	174.13	54.61	80	249.13	249.13	78.13
402	99	1443.31	0.47	34	213.19	14.77			0.00	6	20.38	1.41	73	1013.13	70.19	113	1050.06	1050.06	72.75
404	8	3670.81	1.20			0.00	1	1667.56	45.43	2	13.75	0.37	6	3136.94	85.46	7	3180.94	3180.94	86.65
405	2086	4912.19	1.60	215	566.63	11.54	23	27.06	0.55	25	50.44	1.03	410	859.81	17.50	556	902.31	902.25	18.37
406	1558	22066.50	7.19	298	1801.56	8.16	7	623.94	2.83	9	213.50	0.97	489	9639.19	43.68	656	10459.44	10459.44	47.40
407	25	78.00	0.03	4	9.44	12.10			0.00	1	0.31	0.40	15	46.88	60.10	21	55.50	55.50	71.15
408	17	199.94	0.07	4	25.00	12.50			0.00	2	2.06	1.03	16	93.94	46.98	23	181.69	181.69	90.87
409	543	1208.81	0.39	117	245.56	20.31			0.00			0.00	125	257.88	21.33	138	257.94	257.94	21.34
410	440	1893.69	0.62	108	379.19	20.02			0.00	1	22.50	1.19	112	415.00	21.91	127	492.19	492.19	25.99
Non-Target Ecological Systems																			
Wetland Systems																			
411	1523	1869.38	0.61	485	521.31	27.89	2	0.94	0.05			0.00	506	534.25	28.58	575	534.25	534.25	28.58
412	2033	5132.06	1.67	621	1404.63	27.37	3	0.50	0.01			0	630	1423.88	27.74	784	1423.88	1423.88	27.74
Unclassified Ecological Systems																			
2	5	0.31	0.00			0.00			0.00			0.00			0.00				0.00
6	2201	2339.31	0.76	527	218.81	9.35	11	53.19	2.27			0.00	599	293.19	12.53	759	293.19	293.19	12.53

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Otonabee

Tertiary Watershed 2HJ

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area: 167,166 hectares (413,067 acres)

Land Ownership: Public Land ~ 5%
Private Land ~ 90%
First Nations Lands ~ 5%

Planning Authority: 80% Peterborough County
15% Northumberland County
5% City of Kawartha Lakes

General Description:

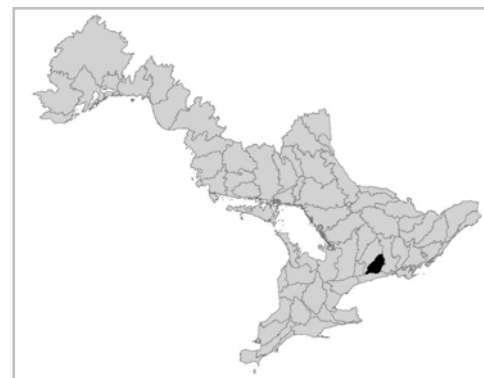
Tertiary watershed 2HJ is an inland watershed that drains into northern Lake Ontario. There are approximately 132,733 hectares of stream systems, 9,313 hectares of lakes and 24,161 hectares of wetlands. This watershed encompasses Rice Lake, the Otonabee River and the Indian River. Mixed forest, dense coniferous and deciduous forest, and sparse deciduous forest comprise most of the natural cover in the region. Wetlands scattered throughout the watershed are primarily deciduous and coniferous swamps.

Land Use:

The dominant land use in this small watershed is agriculture. Developed lands are also present around the city of Peterborough, as well as around smaller settlements such as Millbrook, Hastings and Norwood.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2HJ is 15,239 hectares, constituting approximately 9.1% of the watershed's total area. Over one quarter of these areas (4,099 ha) are Conservation Authority lands. Approximately 1,590 hectares are provincially significant



life science ANSIs, of which 40 hectares coincide with provincial parks. There are approximately 3,120 hectares of protected stream systems, 74 hectares of protected lakes and 11,402 hectares of protected wetlands.

Species and Vegetation Community Targets:

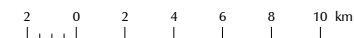
Three secondary species are known to occur in watershed 2HJ: Black Tern (*Chlidonias niger*), Northern Map Turtle (*Graptemys geographica*) and Least Bittern (*Ixobrychus exilis*). There are occurrences for Black Tern and Least Bittern in conservation lands. There are no documented occurrences of rare vegetation communities in this watershed

Conservation Blueprint:

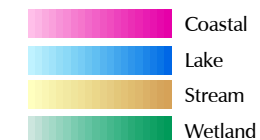
The Conservation Blueprint includes 18,199 hectares of stream systems, 9,192 hectares of lakes and 14,448 hectares of wetlands. The Conservation Blueprint also includes occurrences of Black Tern (1), Northern Map Turtle (1) and Least Bittern (4).

Great Lakes Conservation Blueprint for Biodiversity

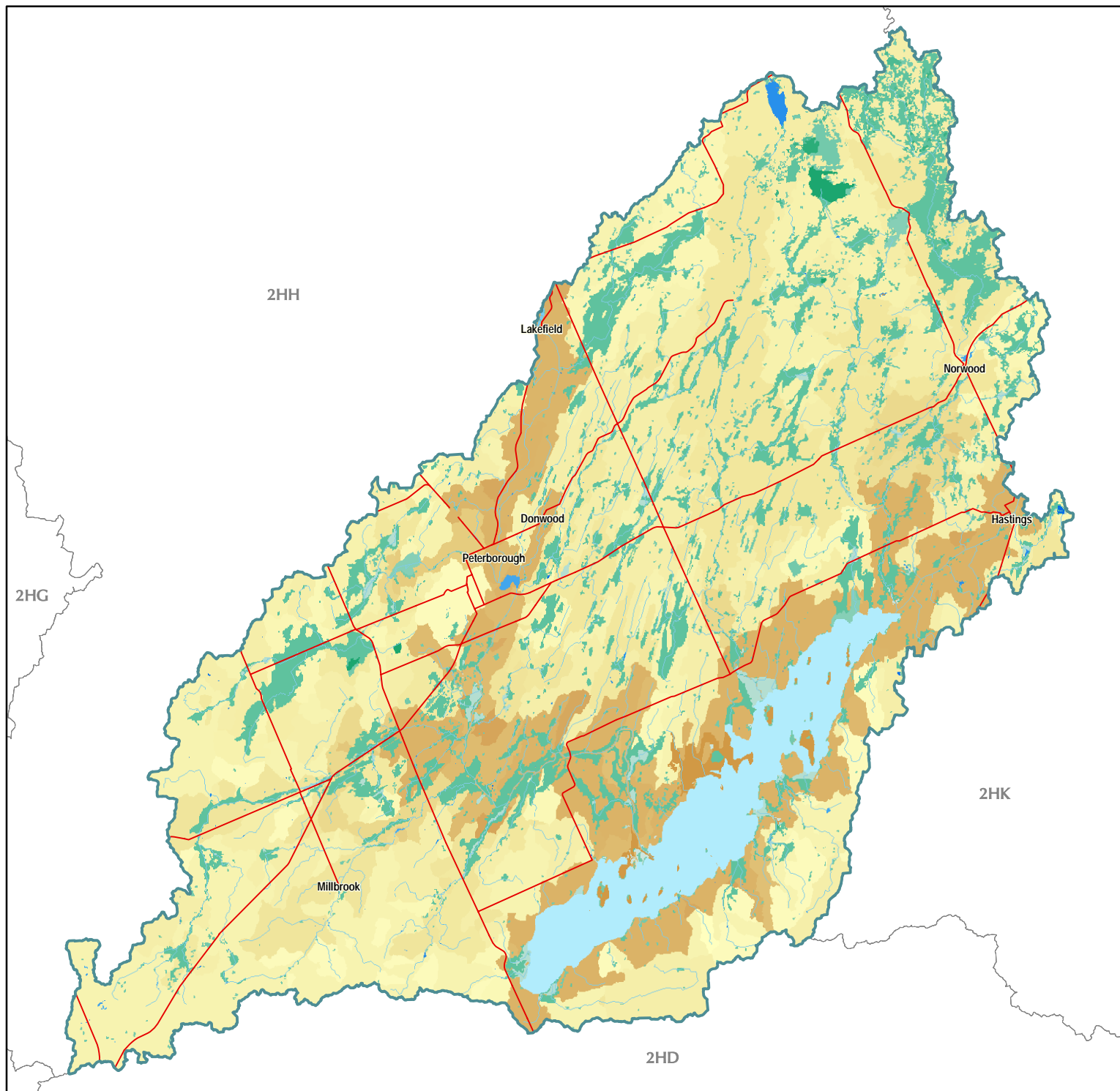
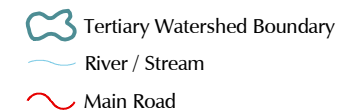
OTONABEE WATERSHED 2HJ



Aquatic Ecological Systems



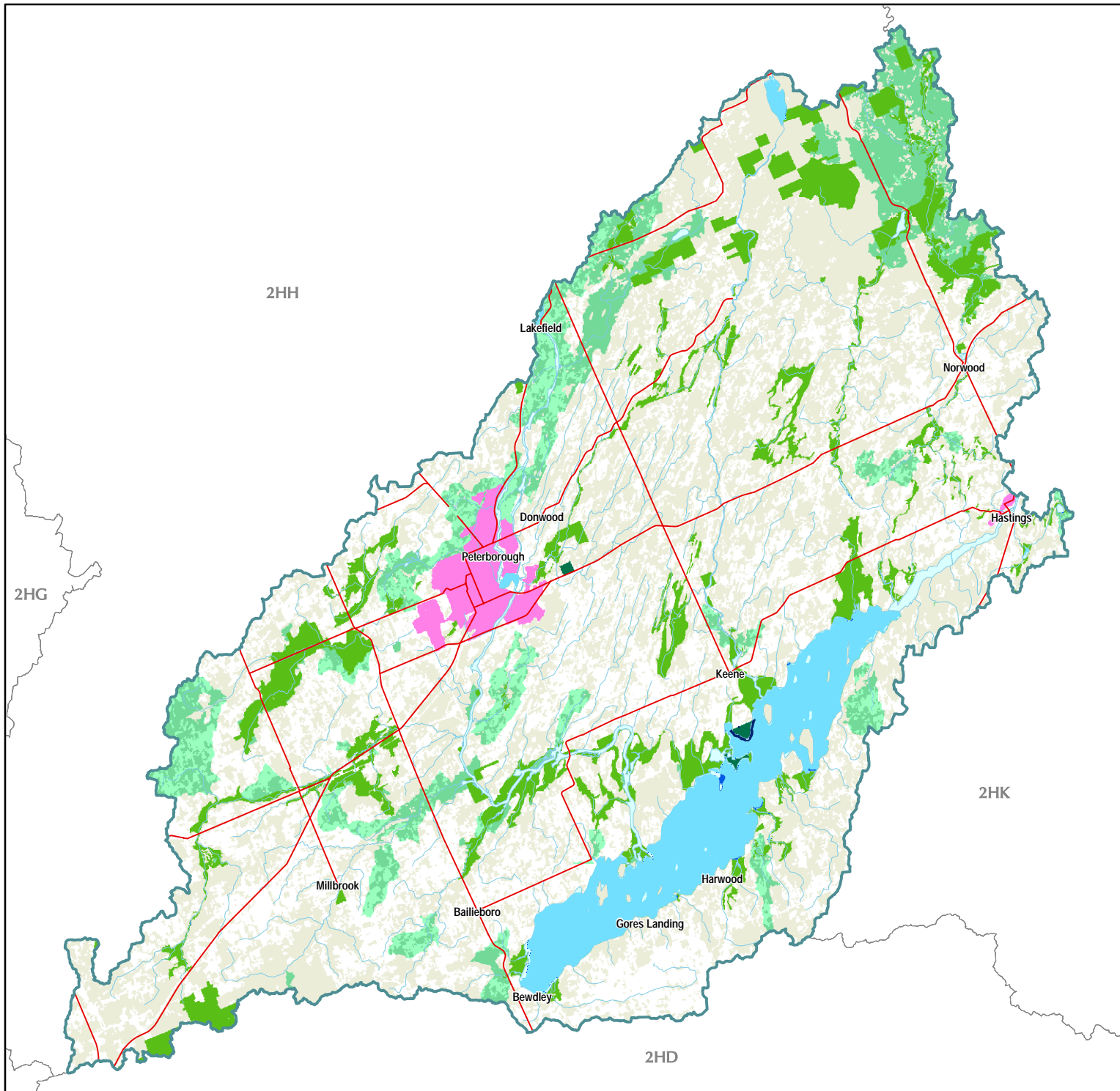
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

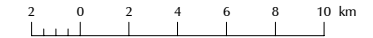
For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

OTONABEE WATERSHED 2HJ



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Documented extant significant species information for tertiary watershed 2HJ

# of pops in 2HJ	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in CAs	% of pops in CAs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species														
6	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	1	17	3	50	4	67	secondary
1	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	0	1	100	1	100	secondary
2	<i>Graptemys geographica</i>	Northern Map Turtle	G5	S3	SC	SC	SAR	0	0	0	0	1	50	secondary

Ecological systems summary for tertiary watershed 2HJ

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stream Systems	132733.63	79.40	3120.81	2.35	18199.75	13.71	11927.94	8.99
Lake Systems	9313.88	5.57	74.69	0.80	9192.75	98.70	9192.75	98.70
Wetland Systems	24161.13	14.45	11402.38	47.19	14448.00	59.80	14448.00	59.80
Tertiary watershed	167166.19	100.00	15239.94	9.12	42482.56	25.41	36210.63	21.66

Ecological systems details for tertiary watershed 2HJ

System Integer	# of patches in 2HJ	Total area (ha) in 2HJ	% of total area in 2HJ	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																			
Stream Systems																			
201	3	313.44	0.19			0.00	3	0.19	0.06			0.00			0.00	4	313.00	158.63	99.86
202	64	4906.69	2.94			0.00			0.00	4	0.38	0.01	41	4.19	0.09	74	39.06	38.50	0.80
203	55	3681.94	2.20			0.00			0.00	5	10.06	0.27	77	16.44	0.45	85	454.00	309.06	12.33
204	7	99.06	0.06			0.00			0.00			0.00	13	1.13	1.14	9	98.88	49.44	99.81
205	41	4457.06	2.67			0.00			0.00	11	218.56	4.90	58	223.25	5.01	69	234.44	234.44	5.26
206	116	17191.56	10.28			0.00	6	545.13	3.17	12	423.50	2.46	334	752.88	4.38	349	2428.94	1981.25	14.13
207	35	4233.94	2.53			0.00			0.00			0.00			0.00	13	1287.63	598.25	30.41
208	71	8249.69	4.94			0.00	8	269.00	3.26	14	136.44	1.65	191	378.75	4.59	225	378.81	378.81	4.59
210	209	26655.63	15.95			0.00	4	20.94	0.08	27	334.44	1.25	347	379.13	1.42	349	1378.06	1378.06	5.17
211	81	3952.19	2.36			0.00	7	20.94	0.53	49	415.56	10.51	120	450.81	11.41	120	780.06	773.75	19.74
214	6	570.06	0.34			0.00	4	0.81	0.14	5	18.31	3.21	32	52.63	9.23	9	493.19	191.00	86.51

System Integer	# of patches in 2HJ	Total area (ha) in 2HJ	% of total area in 2HJ	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																			
Stream Systems continued																			
215	102	3850.00	2.30	3	18.50	0.48			0.00	5	55.19	1.43	161	89.81	2.33	175	295.06	294.31	7.66
216	99	18717.56	11.20	1	1.38	0.01			0.00	11	383.06	2.05	495	434.94	2.32	547	1633.69	1587.94	8.73
217	28	4460.94	2.67			0.00			0.00	3	2.81	0.06	90	12.38	0.28	88	655.19	288.88	14.69
218	13	913.50	0.55			0.00			0.00			0.00	26	2.00	0.22	13	462.38	147.50	50.62
219	2	3.06	0.00			0.00			0.00			0.00			0.00				0.00
222	11	591.50	0.35			0.00			0.00			0.00	3	0.25	0.04	8	466.25	268.88	78.83
224	31	3191.75	1.91			0.00			0.00	3	22.75	0.71	133	34.69	1.09	147	961.06	538.06	30.11
225	11	175.06	0.10			0.00			0.00			0.00	7	0.69	0.39	7	166.25	110.69	94.97
226	2	111.88	0.07			0.00			0.00			0.00	7	0.63	0.56	1	111.69	51.88	99.83
229	1	3.63	0.00			0.00			0.00			0.00			0.00				0.00
230	7	127.44	0.08			0.00			0.00			0.00	21	1.75	1.37	26	52.38	30.88	41.10
231	3	87.31	0.05			0.00			0.00			0.00	6	0.75	0.86	4	87.31	29.19	100.00
233	2	779.69	0.47			0.00			0.00			0.00			0.00	2	779.69	189.81	100.00
235	3	122.00	0.07			0.00			0.00			0.00	1	0.06	0.05	3	121.94	66.88	99.95
238	11	536.69	0.32			0.00			0.00			0.00	34	3.50	0.65	21	366.06	208.63	68.21
241	30	3485.56	2.09			0.00			0.00	12	91.69	2.63	48	94.81	2.72	56	101.75	101.75	2.92
243	10	389.69	0.23			0.00			0.00			0.00			0.00	3	242.94	160.50	62.34
244	22	2895.88	1.73			0.00			0.00			0.00	14	1.44	0.05	24	2534.31	1101.94	87.51
245	1	81.50	0.05			0.00			0.00			0.00			0.00	1	81.50	36.06	100.00
246	21	1742.44	1.04			0.00			0.00			0.00	43	3.44	0.20	50	132.19	83.44	7.59
247	111	14888.25	8.91	1	54.44	0.37	13	1.38	0.01	16	70.00	0.47	406	164.25	1.10	450	176.31	176.31	1.18
248	66	207.31	0.12			0.00			0.00	9	0.94	0.45	9	0.94	0.45	57	206.44	83.38	99.58
250	1	37.13	0.02			0.00			0.00			0.00			0.00				0.00
251	8	515.81	0.31			0.00			0.00			0.00	7	0.56	0.11	5	360.75	119.94	69.94
253	8	37.69	0.02			0.00			0.00			0.00	3	0.19	0.50	3	0.19	0.19	0.50
254	5	318.69	0.19			0.00			0.00	2	14.13	4.43	8	14.56	4.57	4	318.38	159.75	99.90
Lake Systems																			
302	11	8931.25	5.34	2	35.63	0.40	18	17.88	0.20	4	0.25	0.00	67	70.19	0.79	11	8930.88	8930.88	100.00
317	6	16.69	0.01			0.00			0.00			0.00			0.00	2	15.50	15.44	92.88
325	19	7.94	0.00			0.00			0.00			0.00			0.00				0.00
326	29	88.44	0.05			0.00			0.00			0.00	5	0.75	0.85	9	62.06	62.06	70.18
327	8	3.75	0.00			0.00			0.00			0.00	1	0.94	25.00	1	0.94	0.94	25.00
328	41	13.75	0.01	1	0.50	3.64			0.00			0.00	2	0.56	4.09	2	0.56	0.56	4.09
330	45	203.13	0.12			0.00			0.00	5	0.31	0.15	17	1.81	0.89	14	182.38	182.38	89.78
331	30	8.13	0.00			0.00			0.00			0.00			0.00				0.00
332	50	10.75	0.01			0.00			0.00			0.00			0.00				0.00

System Integer	# of patches in 2HJ	Total area (ha) in 2HJ	% of total area in 2HJ	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																			
Lake Systems continued																			
334	2	0.75	0.00			0.00			0.00			0.00			0.00				0.00
335	55	29.06	0.02			0.00			0.00			0.00	4	0.44	1.51	5	0.44	0.44	1.51
336	2	0.25	0.00			0.00			0.00			0.00			0.00				0.00
Wetland Systems																			
401	61	100.31	0.06	2	4.56	4.55	3	2.13	2.12	4	1.13	1.12	47	54.13	53.96	42	71.25	71.25	71.03
402	96	1143.50	0.68	1	19.31	1.69			0.00	9	61.00	5.33	70	875.06	76.52	72	954.19	954.19	83.44
404	3	391.31	0.23			0.00			0.00	2	154.50	39.48	2	256.25	65.48	4	391.31	391.31	100.00
405	1059	2707.38	1.62	3	6.13	0.23	24	95.25	3.52	78	187.56	6.93	145	328.56	12.14	157	548.63	548.56	20.26
406	674	19221.00	11.50			0.00	5	41.94	0.22	72	1422.50	7.40	290	9513.25	49.49	418	12044.25	12044.25	62.66
407	55	127.00	0.08			0.00			0.00	12	13.94	10.97	23	14.63	11.52	29	43.13	43.13	33.96
408	40	97.69	0.06			0.00			0.00	8	2.94	3.01	36	12.00	12.28	32	22.31	22.31	22.84
409	1	61.06	0.04			0.00			0.00			0.00	1	58.19	95.29	1	61.06	61.06	100.00
410	4	311.88	0.19			0.00	2	279.63	89.66	5	57.88	18.56	3	290.31	93.09	4	311.88	311.88	100.00
Non-Target Ecological Systems																			
Unclassified Ecological Systems																			
2	2	150.44	0.09			0.00			0.00			0.00			0.00				0.00
6	71	957.56	0.57	1	39.81	4.16	3	294.88	30.79			0.00	5	642.06	67.05	7	642.06	642.06	67.05

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

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Crowe

Tertiary Watershed 2HK

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area:	362,073 hectares (894,682 acres)
Land Ownership:	Public Land ~ 15% Private Land ~ 84% First Nations Lands ~ 1%
Planning Authority:	50% Hastings County, 26% Northumberland County, 19% Peterborough County, 5% Haliburton County

General Description:

Tertiary watershed 2HK drains into northern Lake Ontario and contains a portion of the Trent-Severn Waterway as it flows into the Bay of Quinte. There are approximately 476 hectares of coastal areas, 284,810 hectares of stream systems, 16,596 hectares of lakes and 57,982 hectares of wetlands. The Crowe River and part of the Trent-Severn Waterway are included in the watershed. Mixed forest is the dominant vegetation type, followed by dense deciduous and coniferous forest, and sparse deciduous forest. Small amounts of sparse coniferous forest are also present. There are many wetlands in the region, including deciduous and coniferous swamps, open fens and treed bogs. A small amount of alvar is located near the eastern boundary of the watershed.

Land Use:

The watershed straddles the contact zone of the Canadian Shield. As a result, land use patterns vary from south to north. The dominant land use in the southern portion is agriculture, while tourism mixed with small amounts of forestry are prevalent in the northern section. Small communities occur in this watershed including Trenton and Campbellford.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2HK is 16,608 hectares, constituting approximately 4.6% of the watershed's



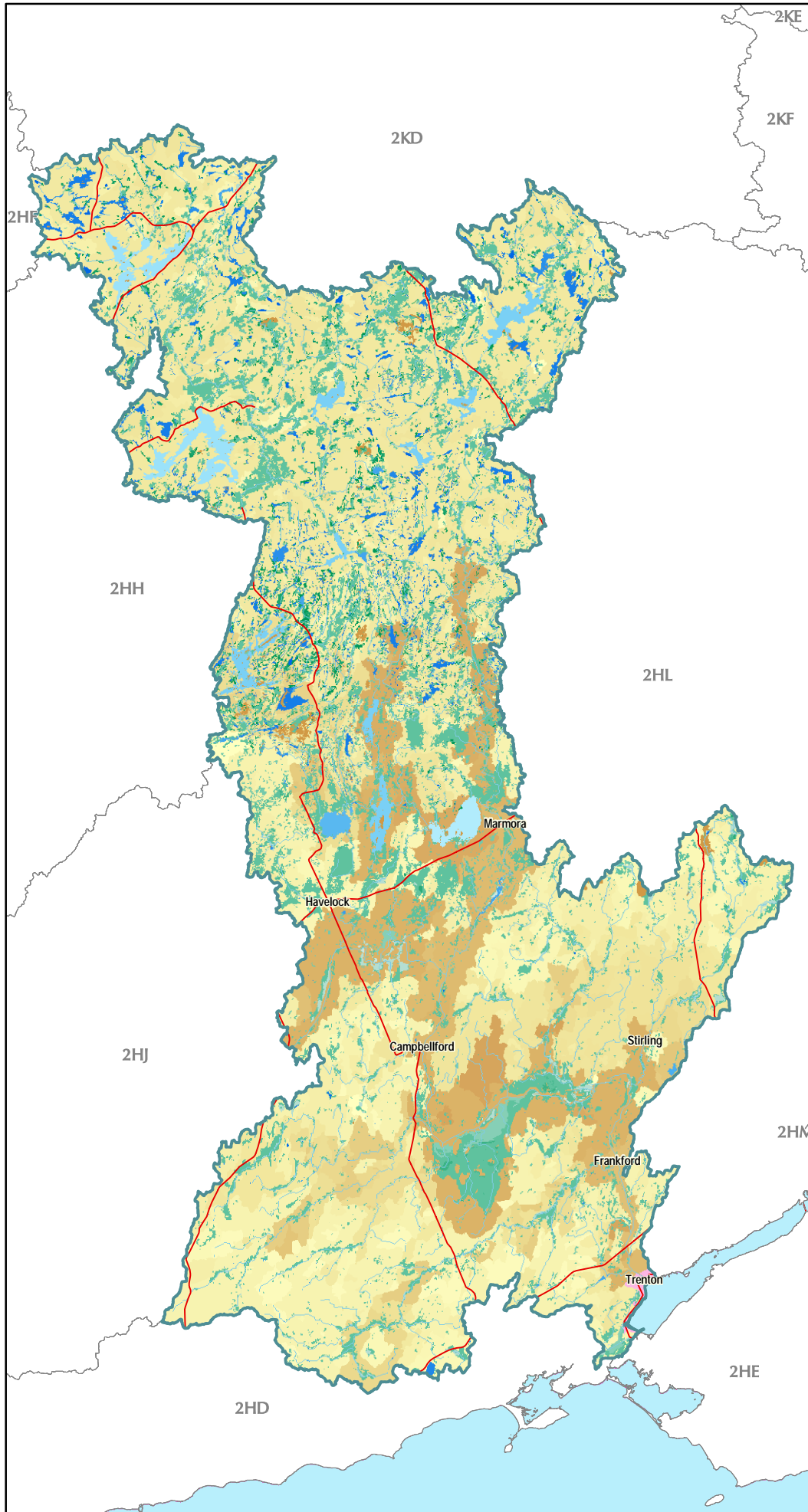
total area. Over one third of these lands (6,570 ha) are located in provincially significant life science ANSIs, of which 295 hectares coincide with provincial parks, and 186 hectares coincide with conservation reserves. There is approximately one hectare of protected coastal areas, 4,367 hectares of protected stream systems, 231 hectares of protected lakes and 11,862 hectares of protected wetlands.

Species and Vegetation Community Targets:

Eleven species targets occur in watershed 2HK. Primary targets include Schweinitz's Sedge (*Carex Schweinitzii*), River Redhorse (*Moxostoma carinatum*), Channel Darter (*Percina copelandi*) and Ebony Boghaunter (*Williamsonia fletcheri*). The secondary targets are Black Tern (*Chlidonias niger*), Spotted Turtle (*Clemmys guttata*), Northern Map Turtle (*Graptemys geographica*), Bald Eagle (*Haliaeetus leucocephalus*), Least Bittern (*Ixobrychus exilis*), King Rail (*Rallus elegans*) and Stinkpot (*Sternotherus odoratus*). There are occurrences of five secondary targets in conservation lands. White Cedar – Hemlock Coniferous Organic Swamp is the only targeted vegetation community in this watershed.

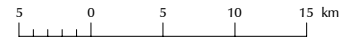
Conservation Blueprint:

The Conservation Blueprint includes 343 hectares of coastal areas, 37,523 hectares of stream systems, 6,551 hectares of lakes and 14,087 hectares of wetlands. The Conservation Blueprint also includes all of the occurrences of primary targets. In addition, the portfolio includes both occurrences of White Cedar – Hemlock Coniferous Organic Swamp.

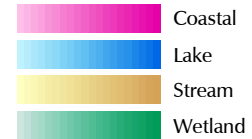


Great Lakes Conservation Blueprint for Biodiversity

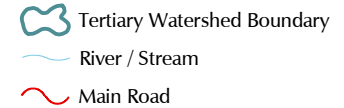
CROWE WATERSHED 2HK



Aquatic Ecological Systems



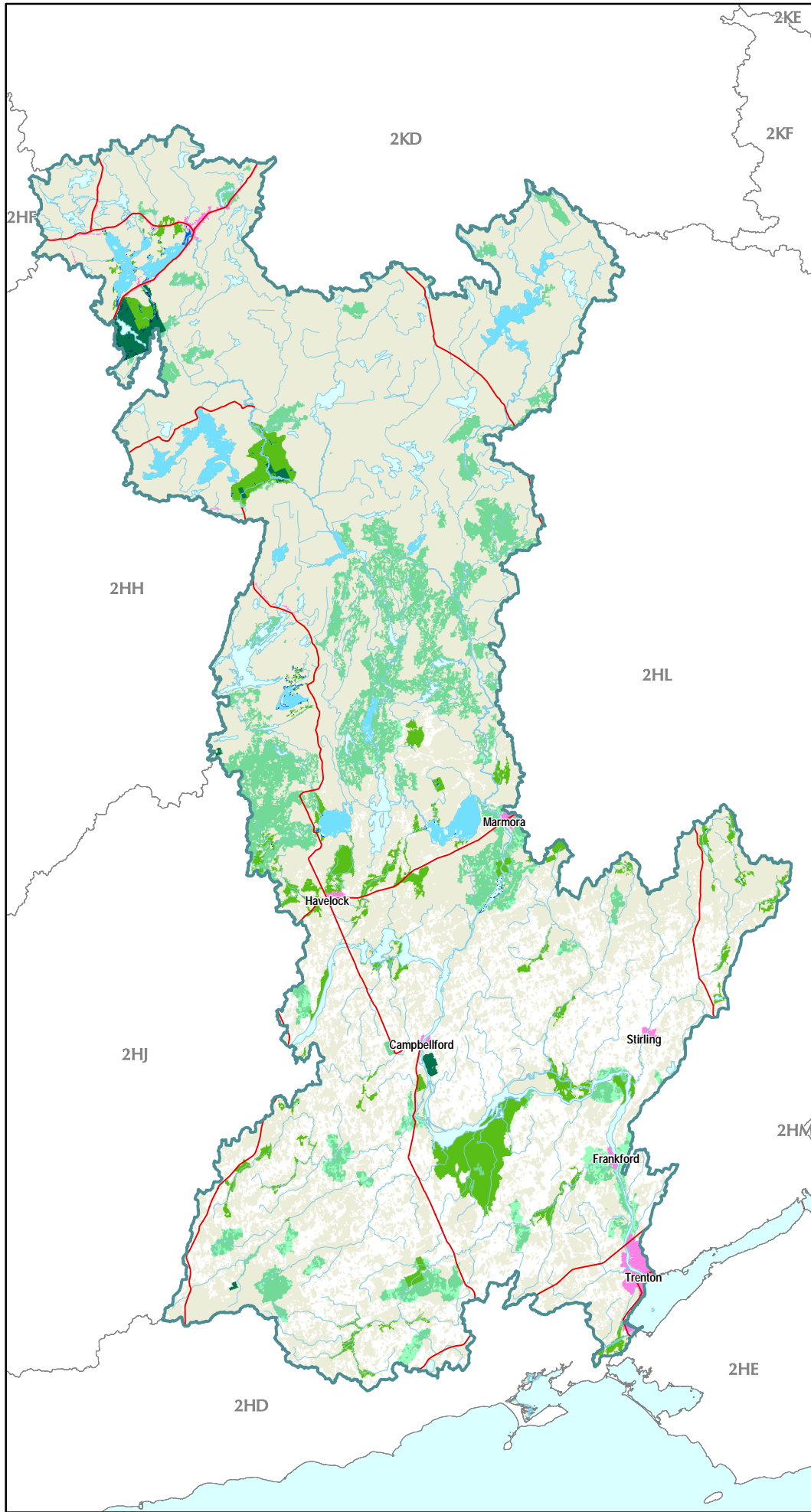
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

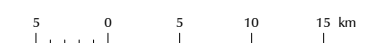
For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

CROWE WATERSHED 2HK



- Aquatic Conservation Blueprint**
- Parks and Protected Areas
 - Additional Designated Natural Heritage Areas
 - Priority Stewardship Areas - Natural
 - Priority Stewardship Areas - Non-Natural
- Other Information**
- Tertiary Watershed Boundary
 - Lake / Water Course
 - Main Road
 - Urban Area
 - Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Documented extant vegetation communities and significant species information for tertiary watershed 2HK

# of pops in 2HK	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in PS LS-ANSIs	% of pops in PS LS-ANSIs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species														
2	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	2	100	2	100	2	100	secondary
1	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S4B,SZN	NAR	END-R	SAR	0	0	0	0	0	0	secondary
1	<i>Rallus elegans</i>	King Rail	G4G5	S2B,SZN	END	END-R	SAR	0	0	1	100	1	100	secondary
2	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	1	50	2	100	2	100	secondary
2	<i>Moxostoma carinatum</i>	River Redhorse	G4	S2	SC	SC	SAR	0	0	0	0	2	100	3
2	<i>Percina copelandi</i>	Channel Darter	G4	S2	THR	THR	SAR	0	0	0	0	2	100	3
1	<i>Clemmys guttata</i>	Spotted Turtle	G5	S3	END	SC	SAR	0	0	0	0	0	0	secondary
16	<i>Graptemys geographica</i>	Northern Map Turtle	G5	S3	SC	SC	SAR	4	25	6	38	11	69	secondary
3	<i>Sternotherus odoratus</i>	Stinkpot	G5	S3	THR	THR	SAR	0	0	1	33	1	33	secondary
1	<i>Williamsonia fletcheri</i>	Ebony Boghaunter	G3G4	S2			GRank	0	0	0	0	1	100	2
1	<i>Carex schweinitzii</i>	Schweinitz's Sedge	G3	S3			GRank	0	0	0	0	1	100	2
Communities														
2	White Cedar - Hemlock Coniferous Organic Swamp Type		G?	S3S4			SRank	0	0	0	0	2	100	3

Ecological systems summary for tertiary watershed 2HK

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	476.25	0.13	0.69	0.14	343.50	72.13	44.81	9.41
Stream Systems	284810.19	78.66	4367.75	1.53	37523.44	13.17	33517.56	11.77
Lake Systems	16596.00	4.58	231.94	1.40	6551.75	39.48	6551.75	39.48
Wetland Systems	57892.25	15.99	11862.88	20.49	14087.38	24.33	14087.38	24.33
Tertiary watershed	362073.44	100.00	16608.06	4.59	58650.94	16.20	54346.50	15.01

Ecological systems details for tertiary watershed 2HK

System Integer	# of patches in 2HK	Total area (ha) in 2HK	% of total area in 2HK	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																			
Coastal Systems																			
105	2	12.81	0.00			0.00			0.00			0.00			0.00	2	12.81	12.81	100.00

System Integer	# of patches in 2HK	Total area (ha) in 2HK	% of total area in 2HK	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																			
Coastal Systems continued																			
106	1	6.31	0.00			0.00			0.00			0.00	1	0.06	0.99	4	6.38	6.38	100.00
108	2	2.69	0.00			0.00			0.00			0.00			0.00	1	2.50	2.50	93.02
113	4	7.38	0.00			0.00			0.00			0.00	4	0.50	6.78	6	7.25	7.25	98.31
116	1	0.06	0.00			0.00			0.00			0.00			0.00				0.00
126	4	29.50	0.01			0.00			0.00			0.00			0.00				0.00
127	13	341.50	0.09			0.00			0.00			0.00	2	0.13	0.04	5	314.56	15.88	92.11
199	7	58.81	0.02			0.00			0.00			0.00			0.00				0.00
Stream Systems																			
201	14	219.00	0.06			0.00	3	0.63	0.29			0.00	3	0.63	0.29	9	114.63	114.63	52.34
202	51	5644.81	1.56			0.00	3	1.19	0.02			0.00			0.00	7	2048.81	1608.06	36.30
203	150	10538.00	2.91			0.00			0.00			0.00	181	22.88	0.22	208	271.19	271.19	2.57
204	25	581.06	0.16			0.00	2	0.81	0.14			0.00	2	0.81	0.14	13	219.88	219.69	37.84
205	162	6092.94	1.68			0.00	4	59.56	0.98	1	0.06	0.00	209	117.69	1.93	245	369.69	340.63	6.07
206	130	30886.00	8.53	1	31.00	0.10			0.00	4	92.63	0.30	68	147.00	0.48	79	964.19	922.31	3.12
207	18	993.75	0.27			0.00			0.00			0.00			0.00	2	21.31	21.31	2.14
208	245	12078.50	3.34			0.00			0.00	1	0.50	0.00	266	32.06	0.27	334	2847.38	2844.75	23.57
209	124	6182.81	1.71			0.00			0.00			0.00			0.00	41	1585.81	1310.19	25.65
210	166	15887.00	4.39			0.00			0.00	3	136.75	0.86	68	143.56	0.90	71	1434.63	1434.50	9.03
211	212	6361.69	1.76			0.00	2	3.06	0.05			0.00	46	25.38	0.40	68	566.56	566.38	8.91
212	46	3344.56	0.92			0.00	1	3.81	0.11			0.00	1	3.81	0.11	10	1237.25	1237.25	36.99
213	927	38526.38	10.64	20	886.63	2.30	17	462.56	1.20			0.00	45	1230.50	3.19	210	6496.25	6486.94	16.86
214	830	40194.13	11.10	34	111.56	0.28	48	710.69	1.77			0.00	154	929.00	2.31	265	1596.50	1596.50	3.97
215	74	4951.63	1.37	1	37.00	0.75	1	37.00	0.75	2	33.25	0.67	49	87.81	1.77	72	409.38	371.75	8.27
216	53	5882.25	1.62			0.00			0.00			0.00	112	10.81	0.18	142	124.63	120.56	2.12
217	201	21129.31	5.84	2	274.50	1.30	2	102.94	0.49	1	79.00	0.37	21	497.63	2.36	39	1330.81	1330.81	6.30
218	114	6353.81	1.75			0.00			0.00			0.00	10	41.19	0.65	26	499.69	499.69	7.86
219	45	2827.06	0.78			0.00			0.00			0.00	46	5.44	0.19	60	15.38	15.38	0.54
220	21	1381.00	0.38			0.00	2	3.38	0.24			0.00	2	3.38	0.24	7	8.00	8.00	0.58
221	209	3880.06	1.07			0.00			0.00			0.00	23	19.56	0.50	44	561.88	561.88	14.48
222	28	4318.56	1.19			0.00			0.00			0.00	54	6.44	0.15	66	9.06	9.06	0.21
223	1	30.44	0.01			0.00			0.00			0.00			0.00				0.00
224	26	3710.31	1.02			0.00			0.00			0.00	70	6.50	0.18	83	717.50	379.94	19.34
225	7	745.25	0.21			0.00			0.00			0.00			0.00	6	630.06	364.56	84.54
226	3	15.19	0.00			0.00			0.00			0.00	1	1.44	9.47	2	1.44	1.44	9.47
227	80	2130.25	0.59			0.00			0.00			0.00	61	54.69	2.57	106	607.00	607.00	28.49
228	3	14.56	0.00			0.00			0.00			0.00			0.00				0.00
230	40	4788.44	1.32			0.00			0.00	6	133.13	2.78	17	139.69	2.92	26	745.81	555.50	15.58
231	18	307.44	0.08			0.00			0.00			0.00	9	9.56	3.11	9	218.56	206.06	71.09
232	1	67.00	0.02			0.00			0.00			0.00			0.00	1	67.06	25.06	100.00
233	8	387.63	0.11			0.00			0.00			0.00			0.00	11	276.63	269.94	71.36
235	21	952.06	0.26			0.00			0.00	1	1.75	0.18	12	4.56	0.48	28	106.38	106.38	11.17
236	1	263.19	0.07			0.00			0.00			0.00	1	0.88	0.33	1	263.19	107.19	100.00
237	1	0.31	0.00			0.00			0.00			0.00			0.00				0.00

System Integer	# of patches in 2HK	Total area (ha) in 2HK	% of total area in 2HK	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																			
Stream Systems continued																			
238	14	1671.19	0.46			0.00	2	4.63	0.28			0.00	5	4.94	0.30	9	1311.19	628.13	78.46
241	53	7617.50	2.10	1	19.25	0.25	1	0.31	0.00	5	117.75	1.55	22	138.88	1.82	29	3129.81	2672.56	41.09
242	2	45.94	0.01			0.00			0.00			0.00			0.00				0.00
243	12	697.81	0.19			0.00			0.00			0.00			0.00	5	651.63	251.19	93.38
244	19	820.31	0.23			0.00			0.00			0.00			0.00	13	394.44	347.94	48.08
245	1	6.81	0.00			0.00			0.00			0.00			0.00				0.00
246	11	1663.31	0.46			0.00	2	1.88	0.11			0.00	3	1.94	0.12	7	254.50	129.88	15.30
247	180	18980.06	5.24	1	103.69	0.55	106	408.19	2.15	9	28.75	0.15	409	630.06	3.32	496	1480.69	1233.38	7.80
248	90	3988.56	1.10			0.00			0.00			0.00			0.00	39	2452.75	2337.44	61.49
250	75	3814.38	1.05			0.00			0.00			0.00	27	11.63	0.30	62	1127.31	1127.31	29.55
251	7	189.50	0.05			0.00			0.00			0.00			0.00	3	169.00	89.81	89.18
253	10	2155.63	0.60			0.00			0.00			0.00			0.00	4	142.56	142.38	6.61
254	8	217.31	0.06			0.00			0.00			0.00	7	1.31	0.60	14	6.94	6.94	3.19
Lake Systems																			
302	17	992.81	0.27			0.00			0.00			0.00	11	3.75	0.38	18	986.88	986.88	99.40
309	3	2824.31	0.78			0.00			0.00			0.00	30	79.75	2.82	12	2824.25	2824.25	100.00
315	73	3736.81	1.03			0.00			0.00			0.00			0.00	10	1228.69	1228.69	32.88
322	14	551.00	0.15			0.00			0.00			0.00	3	0.88	0.16	5	549.13	549.13	99.66
325	46	57.13	0.02			0.00	1	0.06	0.11			0.00	5	1.13	1.97	15	6.50	6.50	11.38
326	318	533.63	0.15			0.00	6	2.56	0.48	1	0.06	0.01	70	21.31	3.99	109	28.94	28.94	5.42
327	16	5.38	0.00			0.00			0.00			0.00			0.00				0.00
328	84	32.38	0.01			0.00	2	0.19	0.58			0.00	2	0.19	0.58	2	0.19	0.19	0.58
329	254	159.94	0.04			0.00	1	0.13	0.08			0.00	2	3.25	2.03	11	6.38	6.38	3.99
330	130	431.69	0.12			0.00			0.00			0.00	3	0.38	0.09	15	293.63	293.63	68.02
331	183	209.31	0.06			0.00	8	1.13	0.54	2	0.50	0.24	19	2.56	1.22	23	12.31	12.31	5.88
332	43	17.50	0.00			0.00	16	24.56	140.36			0.00	1	0.38	2.14	1	0.38	0.38	2.14
333	3395	6042.94	1.67	31	55.50	0.92			0.00	1	0.25	0.00	86	94.94	1.57	127	569.63	569.63	9.43
334	132	67.81	0.02	1	0.25	0.37			0.00			0.00	2	0.31	0.46	5	3.88	3.88	5.71
335	86	85.13	0.02			0.00			0.00			0.00	12	0.88	1.03	15	17.63	17.63	20.70
336	1015	848.25	0.23	11	12.00	1.41	11	10.25	1.21	2	2.69	0.32	27	22.25	2.62	36	23.38	23.38	2.76
Wetland Systems																			
401	84	172.38	0.05			0.00	13	16.94	9.83	1	10.44	6.06	60	130.88	75.92	75	133.56	133.56	77.48
402	200	1736.06	0.48			0.00	4	44.94	2.59	5	17.06	0.98	129	1166.38	67.19	186	1205.63	1205.63	69.45
404	3	969.94	0.27			0.00	1	671.06	69.19			0.00	6	922.94	95.15	7	969.94	969.94	100.00
405	3890	7581.19	2.09	25	35.06	0.46	47	108.63	1.43	17	37.75	0.50	213	304.50	4.02	283	411.81	411.94	5.43
406	2717	40183.88	11.10	24	189.13	0.47	24	3685.44	9.17	26	119.25	0.30	418	8929.44	22.22	606	10863.31	10863.31	27.03
407	78	202.06	0.06			0.00	25	55.00	27.22			0.00	53	85.81	42.47	56	95.69	95.69	47.36
408	30	202.75	0.06			0.00	7	92.88	45.81			0.00	20	94.38	46.55	23	95.00	95.00	46.86
409	345	719.75	0.20	2	0.50	0.07	4	6.81	0.95			0.00	9	34.31	4.77	20	45.56	45.56	6.33
410	293	1133.06	0.31	4	11.13	0.98	1	1.56	0.14			0.00	10	23.81	2.10	15	96.38	96.38	8.51

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Non-Target Ecological Systems																			
Coastal Systems																			
122	2	1.38	0.00			0.00			0.00			0.00			0.00				0.00
123	1	8.63	0.00			0.00			0.00			0.00			0.00				0.00
124	1	7.19	0.00			0.00			0.00			0.00			0.00				0.00
Wetland Systems																			
411	1025	1191.19	0.33	14	9.75	0.82	14	13.06	1.10			0.00	49	53.69	4.51	59	53.69	53.69	4.51
412	1368	3800.00	1.05	24	54.81	1.44	11	31.19	0.820724	1	3.75	0.10	49	116.75	3.07	59	116.81	116.81	3.07
Unclassified Ecological Systems																			
2	74	1275.50	0.35	1	33.19	2.60			0.00			0.00	22	36.13	2.83	26	36.13	36.13	2.83
5	8	0.56	0.00			0.00			0.00			0.00			0.00				0.00
6	2136	2298.19	0.63	6	1.31	0.06	9	3.38	0.15	2	1.75	0.08	71	144.81	6.30	92	144.88	144.88	6.30

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Moira

Tertiary Watershed 2HL

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area:	284,735 hectares (703,580 acres)
Land Ownership:	Public Land ~ 20% Private Land ~ 80%
Planning Authority:	79% Hastings County 20% Lennox and Addington County 1% Frontenac County

General Description:

Tertiary watershed 2HL drains into Lake Ontario. There are approximately 1,299 hectares of coastal areas, 209,331 hectares of stream systems, 11,358 hectares of lakes and 59,466 hectares of wetlands. The Bay of Quinte is at the southern end of this watershed. Many forest types are present, including mixed, dense deciduous, dense coniferous, sparse deciduous and sparse coniferous forests. There are many wetlands in the region, including deciduous and coniferous swamps, open fens and treed bogs.

Land Use:

Although small amounts of agriculture, forestry and development occur here, natural vegetation dominates the land cover. Some conifer plantations are present in the northeast portions of the watershed. Belleville is the largest city in the watershed, and other communities include Kaladar, Madoc, Tweed and Foxboro.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2HL is 36,896 hectares, constituting approximately 12.9% of the watershed's total area. Almost half of these lands (16,803 ha) are located in provincially protected areas. Another third of these lands are provincially



significant life science ANSIs, of which 105 hectares coincide with provincial parks and 2,618 hectares coincide with conservation reserves. There are approximately four hectares of protected coastal areas 20,952 hectares of protected stream systems, 2,884 hectares of protected lakes and 12,080 hectares of protected wetlands.

Species and Vegetation Community Targets:

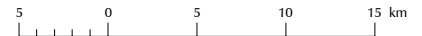
Channel Darter (*Percina copelandi*) is the only documented primary target in this watershed. The secondary targets are Spotted Turtle (*Clemmys guttata*), Small White Lady's-Slipper (*Cypripedium candidum*), Northern Map Turtle (*Graptemys geographica*), Least Bittern (*Ixobrychus exilis*), Louisiana Waterthrush, (*Seiurus motacilla*) and Stinkpot (*Sternotherus odoratus*). There is one occurrence of Channel Darter in a Conservation Authority area. There are no documented rare vegetation communities in this watershed

Conservation Blueprint:

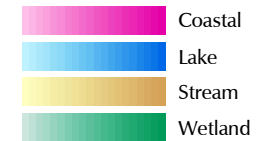
The Conservation Blueprint includes 839 hectares of coastal areas, 39,142 hectares of stream systems, 5,113 hectares of lakes and 18,319 hectares of wetlands. The Conservation Blueprint also includes occurrences for Channel Darter (3), Spotted Turtle (1), Small White Lady's Slipper (1), Northern Map Turtle (1), Least Bittern (3) and Stinkpot (2).

Great Lakes Conservation Blueprint for Biodiversity

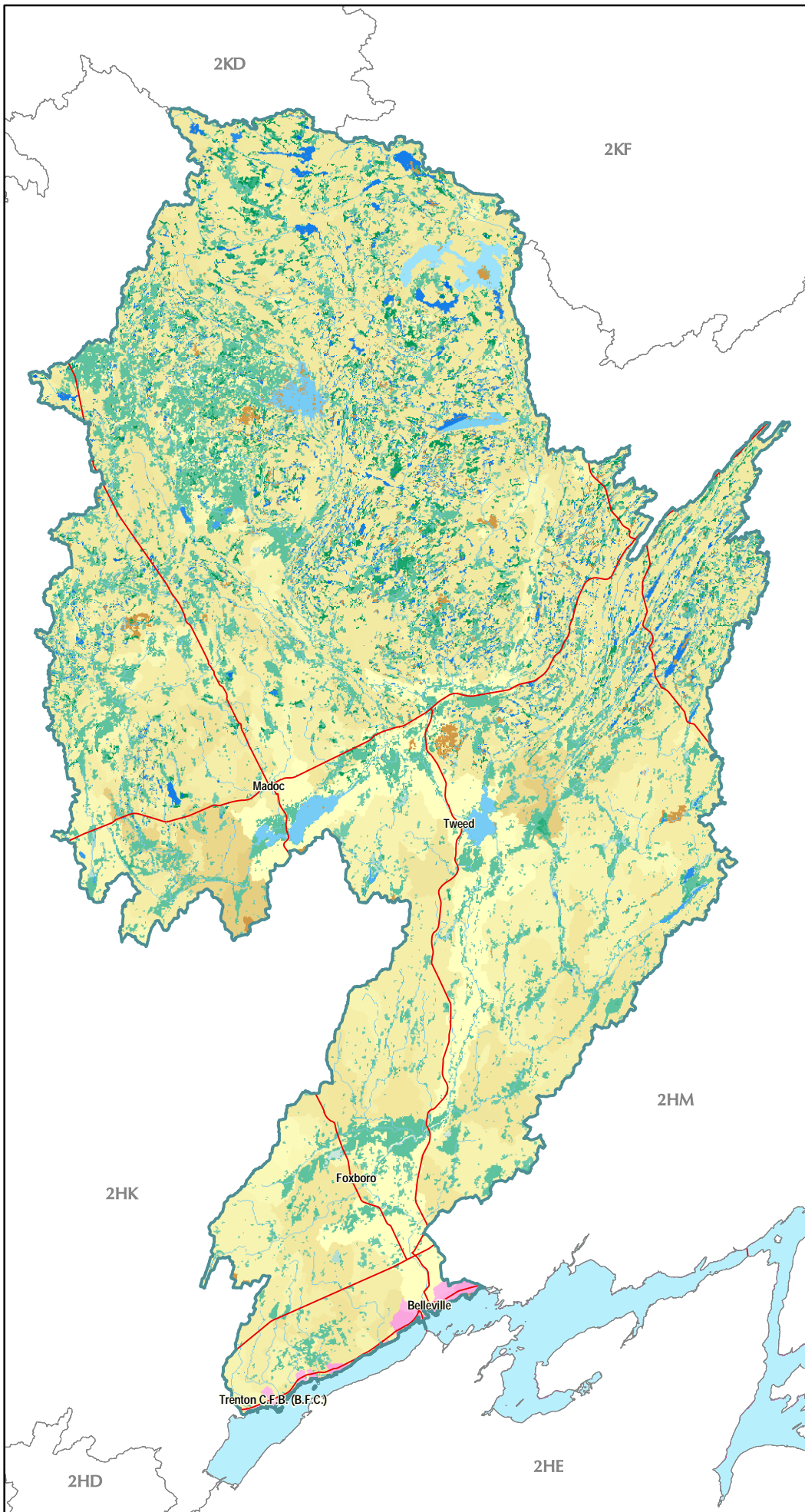
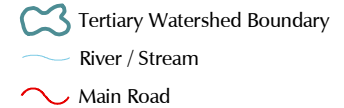
MOIRA WATERSHED 2HL



Aquatic Ecological Systems



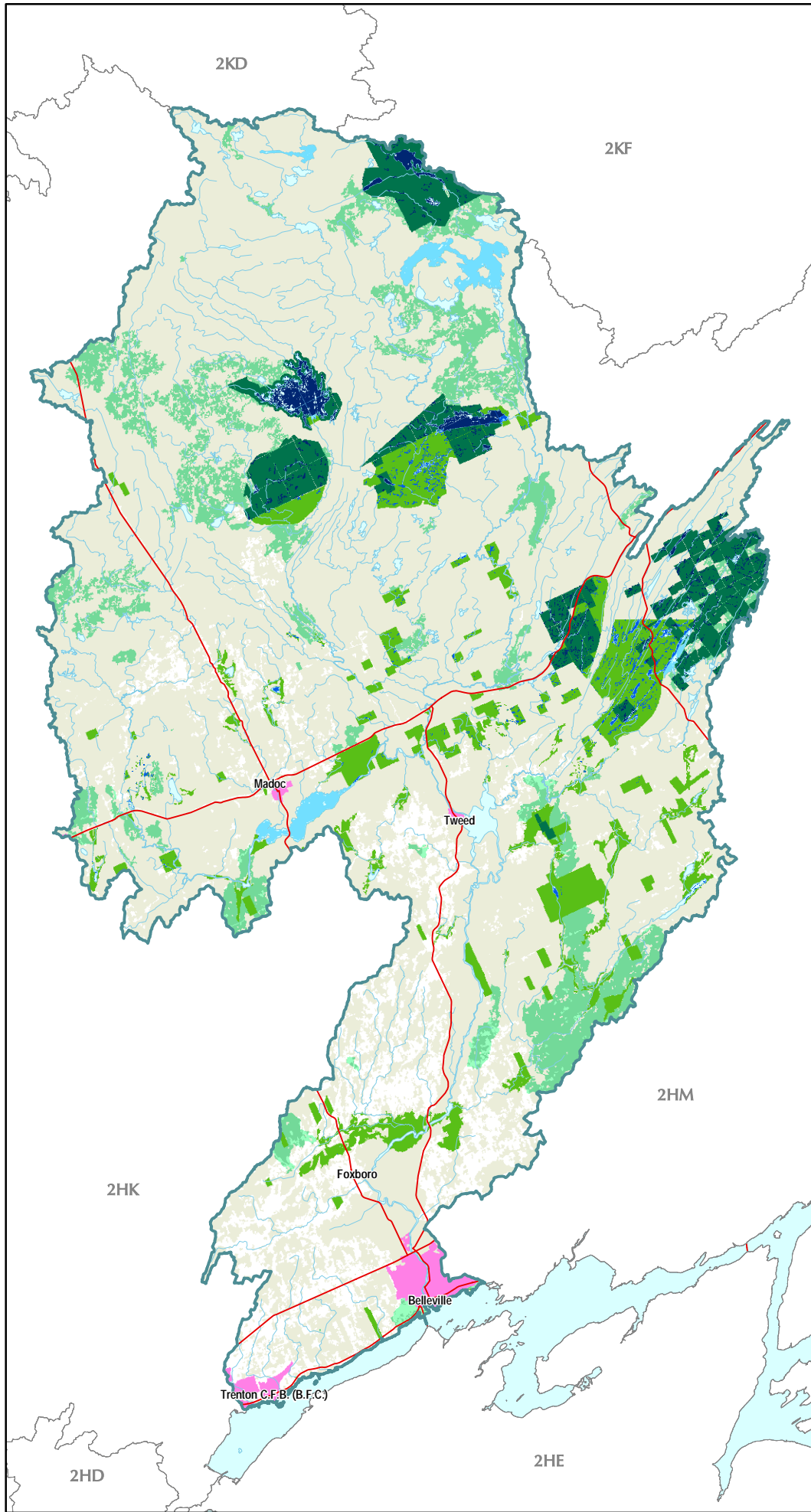
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

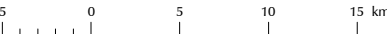
For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

MOIRA WATERSHED 2HL



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Documented extant significant species information for tertiary watershed 2HL

# of pops in 2HL	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in PS LS-ANSIs	% of pops in PS LS-ANSIs	# of pops in CAs	% of pops in CAs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species																
4	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	0	2	50	3	75	3	75	secondary
1	<i>Seiurus motacilla</i>	Louisiana Waterthrush	G5	S3B,SZN	SC	SC	SAR	0	0	0	0	0	0	0	0	secondary
6	<i>Percina copelandi</i>	Channel Darter	G4	S2	THR	THR	SAR	0	0	1	17	1	17	3	50	3
3	<i>Clemmys guttata</i>	Spotted Turtle	G5	S3	END	SC	SAR	1	33	0	0	1	33	1	33	secondary
5	<i>Graptemys geographica</i>	Northern Map Turtle	G5	S3	SC	SC	SAR	0	0	0	0	0	0	1	20	secondary
3	<i>Sternotherus odoratus</i>	Stinkpot	G5	S3	THR	THR	SAR	1	33	1	33	1	33	2	67	secondary
1	<i>Cypripedium candidum</i>	Small White Lady's-slipper	G4	S1	END	END-R	SAR	1	10	0	0	1	100	1	100	secondary

Ecological systems summary for tertiary watershed 2HL

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	1299.94	0.46	4.75	0.37	839.56	64.58	99.94	7.69
Stream Systems	209331.81	73.52	20952.81	10.01	39142.44	18.70	38310.75	18.30
Lake Systems	11358.63	3.99	2884.19	25.39	5113.06	45.01	5113.06	45.01
Wetland Systems	59466.13	20.88	12080.13	20.31	18319.13	30.81	18319.13	30.81
Tertiary watershed	284735.06	100.00	36896.94	12.96	64389.44	22.61	62818.13	22.06

Ecological systems details for tertiary watershed 2HL

System Integer	# of patches in 2HL	Total area (ha) in 2HL	% of total area in 2HL	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																			
Coastal Systems																			
105	11	57.00	0.02			0.00			0.00			0.00	4	0.31	0.55	7	2.81	2.81	4.93
106	1	2.44	0.00			0.00			0.00			0.00			0.00	1	2.44	2.44	100.00
108	13	27.31	0.01			0.00			0.00			0.00	3	0.38	1.37	6	6.13	6.13	22.43
113	2	1.25	0.00			0.00			0.00			0.00	2	0.19	15.00	2	1.19	1.19	95.00
114	1	3.69	0.00			0.00			0.00			0.00			0.00	1	3.69	3.69	100.00
115	1	1.94	0.00			0.00			0.00			0.00			0.00	1	2.00	2.00	100.00

System Integer	# of patches in 2HL	Total area (ha) in 2HL	% of total area in 2HL	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																			
Coastal Systems continued																			
116	16	14.44	0.01			0.00			0.00			0.00	13	1.56	10.82	16	6.19	6.19	42.86
125	13	496.06	0.17			0.00			0.00	1	1.06	0.21	8	2.00	0.40	7	345.81	56.50	69.71
126	1	91.38	0.03			0.00			0.00			0.00			0.00	1	91.38		100.00
127	16	521.13	0.18			0.00			0.00			0.00	3	0.25	0.05	7	377.88	18.94	72.51
199	8	58.25	0.02			0.00			0.00			0.00	1	0.06	0.11	1	0.06	0.06	0.11
Stream Systems																			
201	10	234.06	0.08			0.00	2	7.25	3.10	1	8.50	3.63	3	15.75	6.73	4	221.31	163.81	94.55
202	4	509.31	0.18			0.00			0.00	3	31.44	6.17	4	31.50	6.18	3	509.31	407.88	100.00
203	252	5462.00	1.92	9	25.31	0.46	17	34.06	0.62	10	31.50	0.58	50	86.69	1.59	66	984.88	955.25	18.03
204	5	135.06	0.05			0.00			0.00	3	4.19	3.10	3	4.19	3.10	8	135.06	103.31	100.00
205	465	5303.19	1.86	31	103.75	1.96	14	25.13	0.47	15	114.56	2.16	143	254.00	4.79	221	840.56	835.88	15.85
206	82	8002.81	2.81	1	6.88	0.09	1	7.44	0.09	18	657.75	8.22	72	677.94	8.47	77	1887.94	1866.81	23.59
207	2	138.94	0.05			0.00			0.00			0.00			0.00	2	138.94	50.44	100.00
208	365	18531.31	6.51	13	51.06	0.28	5	56.38	0.30	43	750.56	4.05	299	987.69	5.33	406	1502.81	1502.81	8.11
209	158	2794.00	0.98	38	538.38	19.27	24	490.44	17.55	3	26.31	0.94	58	729.50	26.11	118	1144.81	1144.81	40.97
210	75	15758.19	5.53			0.00			0.00	12	141.13	0.90	43	148.06	0.94	46	1849.00	1805.56	11.73
211	552	18311.25	6.43	41	223.75	1.22	30	423.19	2.31	39	570.13	3.11	311	1203.44	6.57	434	2023.13	2023.13	11.05
212	29	728.13	0.26	2	36.31	4.99	1	20.88	2.87			0.00	8	59.06	8.11	11	207.00	207.00	28.43
213	1825	55996.13	19.67	285	4901.19	8.75	155	3167.69	5.66	134	1115.69	1.99	618	8198.19	14.64	1135	12233.06	12233.06	21.85
214	1444	31217.69	10.96	367	4500.63	14.42	142	2198.56	7.04	125	796.06	2.55	585	6912.50	22.14	982	7540.81	7540.81	24.16
215	39	1304.06	0.46			0.00			0.00	5	11.00	0.84	14	11.94	0.92	20	457.81	322.81	35.11
216	85	12765.94	4.48			0.00			0.00	21	373.13	2.92	236	459.63	3.60	162	3632.94	3548.69	28.46
217	130	9505.13	3.34	6	52.81	0.56	2	42.75	0.45	14	214.19	2.25	27	275.69	2.90	45	710.13	710.13	7.47
218	24	1013.00	0.36			0.00			0.00	12	18.00	1.78	13	18.44	1.82	18	33.38	33.38	3.29
221	25	1176.25	0.41			0.00			0.00			0.00	15	12.38	1.05	17	73.13	73.13	6.22
226	54	2422.44	0.85			0.00			0.00	16	39.19	1.62	30	40.81	1.68	48	288.31	288.25	11.90
227	7	28.81	0.01			0.00			0.00			0.00	1	0.06	0.22	1	0.06	0.06	0.22
231	14	1829.06	0.64	6	15.13	0.83	17	30.25	1.65	7	127.81	6.99	52	149.75	8.19	17	1710.19	1499.63	93.50
232	1	0.06	0.00			0.00			0.00			0.00			0.00				0.00
233	6	133.88	0.05			0.00			0.00	1	1.06	0.79	1	1.06	0.79	6	133.38	109.63	99.63
238	1	0.06	0.00			0.00			0.00			0.00			0.00				0.00
241	1	0.06	0.00			0.00			0.00			0.00			0.00				0.00
247	2	0.13	0.00			0.00			0.00			0.00			0.00				0.00
Lake Systems																			
309	3	1201.56	0.42			0.00			0.00			0.00			0.00	10	1201.50	1201.50	99.99
315	6	283.81	0.10	5	251.75	88.70	4	277.50	97.78	9	3.38	1.19	10	278.13	98.00	9	283.63	283.63	99.93

System Integer	# of patches in 2HL	Total area (ha) in 2HL	% of total area in 2HL	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																			
Lake Systems continued																			
317	86	2086.94	0.73	68	768.94	36.85			0.00	4	5.31	0.25	73	774.38	37.11	134	1564.38	1564.38	74.96
325	70	53.50	0.02	7	2.00	3.74	5	0.44	0.82	1	0.31	0.58	15	3.19	5.96	28	4.69	4.69	8.76
326	594	485.00	0.17	57	17.06	3.52	56	18.13	3.74	7	16.94	3.49	122	49.25	10.15	165	49.25	49.25	10.15
327	58	17.88	0.01	7	0.94	5.24	6	0.44	2.45	4	0.25	1.40	14	1.38	7.69	14	1.38	1.38	7.69
328	61	31.00	0.01	2	0.31	1.01			0.00	4	0.44	1.41	7	0.88	2.82	8	0.88	0.88	2.82
329	503	156.88	0.06	77	20.50	13.07	65	14.06	8.96	14	1.81	1.16	131	32.00	20.40	153	32.00	32.00	20.40
330	272	370.38	0.13	21	50.50	13.63	11	4.94	1.33	7	3.81	1.03	39	60.88	16.44	90	60.88	60.88	16.44
331	131	57.19	0.02	2	1.81	3.17	1	0.81	1.42	2	0.44	0.77	14	17.94	31.37	18	19.63	19.63	34.32
332	57	14.50	0.01			0.00			0.00			0.00			0.00				0.00
333	7617	6058.19	2.13	1087	1018.25	16.81	981	624.13	10.30	231	127.25	2.10	2032	1583.00	26.13	3253	1811.63	1811.63	29.90
334	112	33.56	0.01	12	4.69	13.97	10	1.63	4.84	4	0.56	1.68	23	6.56	19.55	26	6.56	6.56	19.55
335	93	44.19	0.02	1	0.44	0.99	1	0.38	0.85	7	2.44	5.52	9	3.25	7.36	9	3.25	3.25	7.36
336	985	464.06	0.16	92	45.63	9.83	83	20.31	4.38	49	14.06	3.03	190	73.38	15.81	216	73.44	73.44	15.82
Wetland Systems																			
401	81	243.63	0.09			0.00	1	3.94	1.62	16	35.69	14.65	69	173.06	71.04	101	176.94	176.94	72.63
402	89	627.31	0.22			0.00	2	3.75	0.60	12	46.94	7.48	75	478.00	76.20	90	488.44	488.44	77.86
405	5112	10131.94	3.56	507	790.44	7.80	254	339.88	3.35	185	280.81	2.77	947	1527.69	15.08	1352	1527.69	1527.69	15.08
406	3086	37920.75	13.32	348	1731.00	4.56	203	1325.06	3.49	221	1809.38	4.77	924	7788.69	20.54	1312	13798.63	13798.63	36.39
407	84	169.56	0.06	2	15.81	9.33	8	22.50	13.27	9	25.44	15.00	51	60.63	35.75	59	61.00	61.00	35.97
408	51	368.06	0.13			0.00			0.00	9	19.31	5.25	23	114.75	31.18	30	276.88	276.88	75.22
409	528	1035.81	0.36	84	169.06	16.32	17	66.44	6.41	9	30.19	2.91	103	216.25	20.88	120	219.38	219.38	21.18
410	391	1695.38	0.60	43	158.31	9.34	14	84.63	4.99	3	9.56	0.56	57	243.56	14.37	69	292.63	292.63	17.26
Non-Target Ecological Systems																			
Coastal Systems																			
121	4	12.56	0.00			0.00			0.00			0.00			0.00				0.00
123	1	0.13	0.00			0.00			0.00			0.00			0.00				0.00
124	8	12.38	0.00			0.00			0.00			0.00			0.00				0.00
Wetland Systems																			
411	1891	2090.19	0.73	277	348.31	16.66	102	209.44	10.02	65	55.63	2.66	423	544.38	26.04	480	544.44	544.44	26.05
412	2152	5183.50	1.82	244	474.75	9.16	116	342.50	6.61	70	113.44	2.19	431	933.13	18.00	525	933.13	933.13	18.00
Unclassified Ecological Systems																			
2	136	16030.88	5.63			0.00			0.00	56	667.44	4.16	130	674.56	4.21	161	884.50	884.50	5.52
5	29	5.19	0.00			0.00			0.00			0.00	1	0.06	1.20	1	0.06	0.06	1.20
6	3553	3273.38	1.15	690	477.50	14.59	411	250.31	7.65	94	228.88	6.99	1056	975.00	29.79	1405	975.19	975.19	29.79

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and **Additional Designated Natural Heritage Areas** which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Napanee

Tertiary Watershed 2HM

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area:	303,948 hectares (751,055 acres)
Land Ownership:	Public Land ~ 10% Private Land ~ 85% First Nations Lands ~5%
Planning Authority:	50% Lennox and Addington County 38% Frontenac County 12% Hastings County

General Description:

Tertiary watershed 2HM drains into northeastern Lake Ontario. There are approximately 9,464 hectares of coastal areas, 242,980 hectares of stream systems, 10,256 hectares of lakes and 39,099 hectares of wetlands. This watershed contains a significant stretch of Lake Ontario coastline along the Bay of Quinte, Adolphus Reach and the North Channel. Amherst Island and a few smaller islands are included. Mixed forest is the dominant land cover, followed by dense and sparse deciduous forest. Wetlands in the region include deciduous and coniferous swamps, open fens, marshes and treed bogs. A small amount of alvar is scattered throughout the southern half of the watershed.

Land Use:

This watershed straddles the contact zone of the Canadian Shield and the Paleozoic limestone bedrock of southern Ontario. As a result, land use patterns vary from south to north. The dominant land use in the southern half is agriculture. Very small patches of developed land are scattered throughout the entire watershed, with a larger area at the city of Kingston. Napanee and Deseronto are other communities in the watershed.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2HM is 32,785 hectares, constituting approximately 10.8% of the



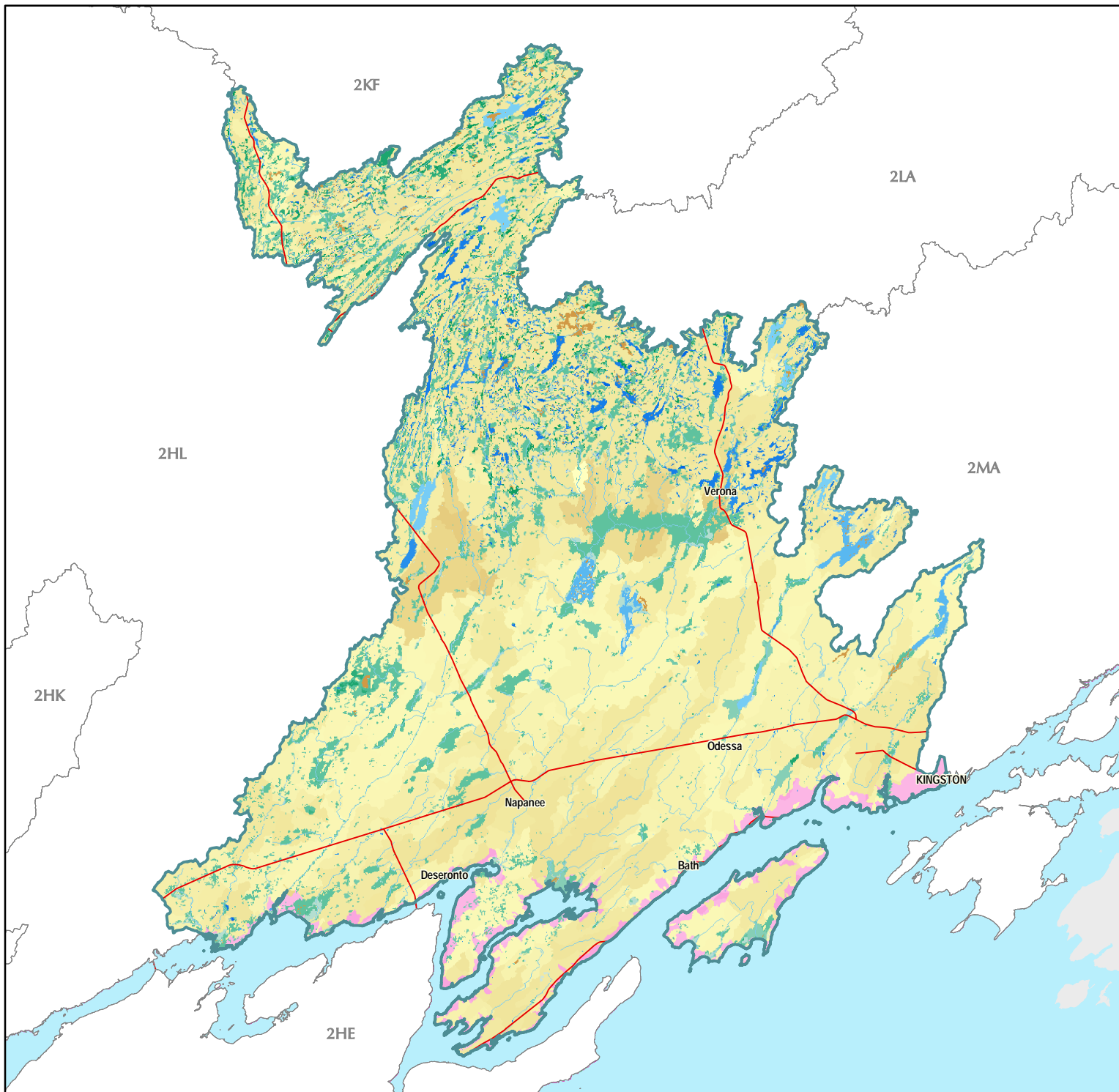
watershed's total area. Almost half of these lands (14,277 ha) are located in provincially significant life science ANSIs, of which 535 hectares coincide with provincial parks. There are also significant amounts of provincially protected areas (9,299 ha) as well as Conservation Authority lands (7,111 ha). There are approximately 256 hectares of protected coastal areas, 15,513 hectares of protected stream systems, 2,450 hectares of protected lakes and 13,894 hectares of protected wetlands.

Species and Vegetation Community Targets:

Thirteen species targets occur in this watershed including Eastern Prairie Fringed-orchid (*Platanthera leucophaea*), Spotted Turtle (*Clemmys guttata*), King Rail (*Rallus elegans*) and Toothcup (*Rotala ramosior*). There are several occurrences of target species in conservation lands. Slender Sedge Graminoid Fen is the only targeted vegetation community in this watershed.

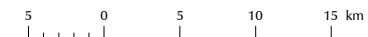
Conservation Blueprint:

The Conservation Blueprint includes 456 hectares of coastal areas, 40,878 hectares of stream systems, 4,965 hectares of lakes and 15,316 hectares of wetlands. The Conservation Blueprint includes all of the known occurrences of Lake Sturgeon (1), Eastern Prairie Fringed-orchid (1) and Ebony Boghaunter (2). The portfolio also includes the known occurrence of Slender Sedge Graminoid Fen, as well as 6 out of 10 of the secondary species targets.

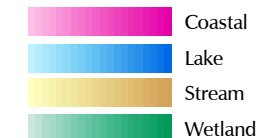


Great Lakes Conservation Blueprint for Biodiversity

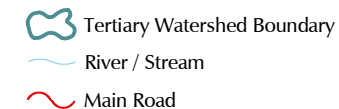
NAPANEE WATERSHED 2HM



Aquatic Ecological Systems



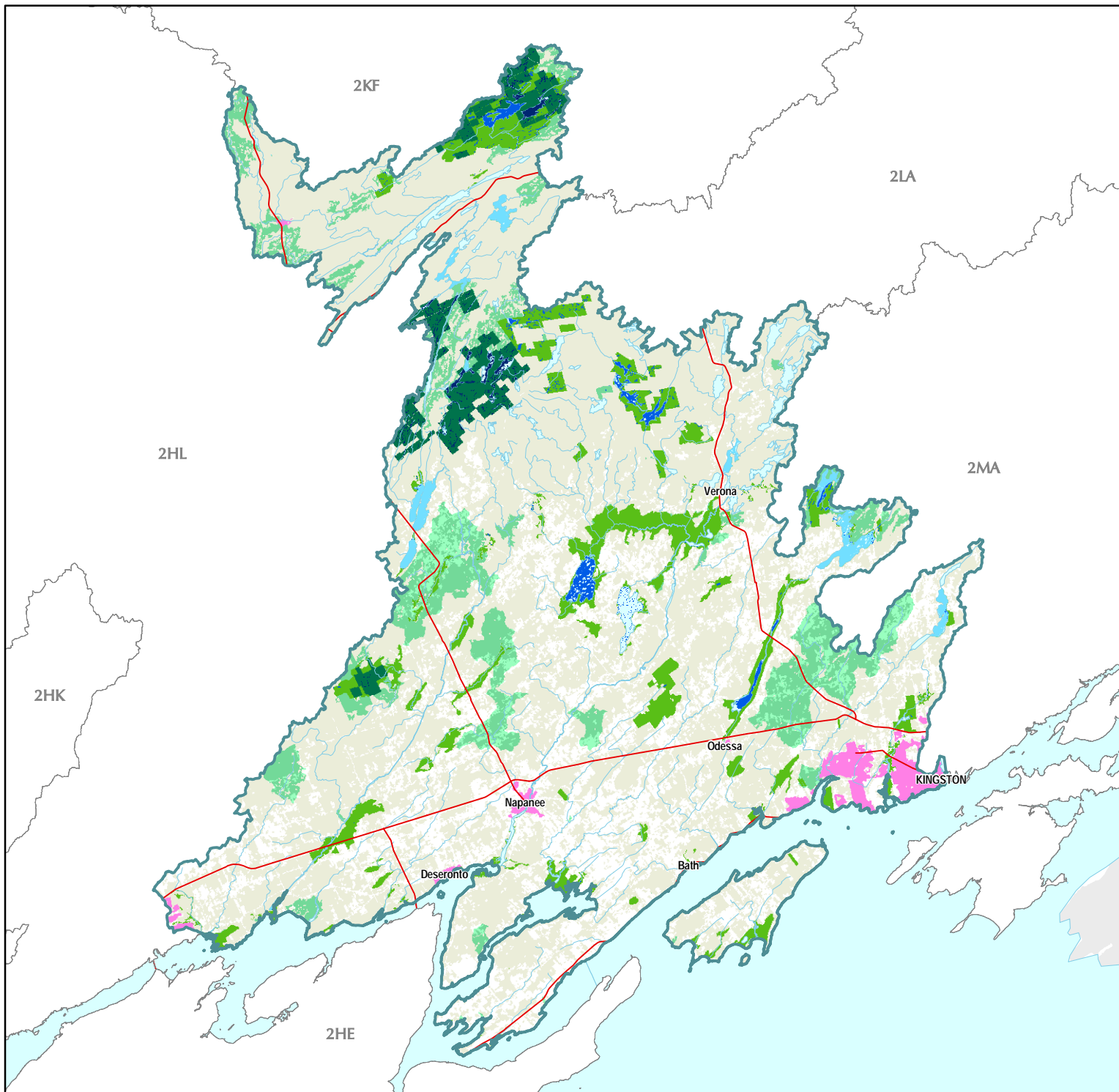
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

NAPANEE WATERSHED 2HM



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Documented extant vegetation communities and significant species information for tertiary watershed 2HM

# of pops in 2HM	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in Parks and PAs	% of pops in PS LS-ANSIs	% of pops in CAs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species															
6	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	33	50	6	100	6	100	secondary
1	<i>Rallus elegans</i>	King Rail	G4G5	S2B,SZN	END	END-R	SAR	0	0	100	1	100	1	100	secondary
15	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	13	20	9	60	9	60	secondary
1	<i>Seiurus motacilla</i>	Louisiana Waterthrush	G5	S3B,SZN	SC	SC	SAR	0	0	0	0	0	0	0	secondary
1	<i>Acipenser fulvescens</i>	Lake Sturgeon	G3G4	S3	SC	NAR	GRank SAR	0	0	0	0	0	1	100	2
1	<i>Lepisosteus oculatus</i>	Spotted Gar	G5	S2	THR	THR	SAR	0	0	0	0	0	0	0	secondary
1	<i>Clemmys guttata</i>	Spotted Turtle	G5	S3	END	SC	SAR	0	0	0	0	0	1	100	secondary
3	<i>Graptemys geographica</i>	Northern Map Turtle	G5	S3	SC	SC	SAR	0	0	0	0	0	0	0	secondary
12	<i>Sternotherus odoratus</i>	Stinkpot	G5	S3	THR	THR	SAR	0	0	8	1	8	3	25	secondary
1	<i>Apalone spinifera</i>	Spiny Softshell	G5	S3	THR	THR	SAR	0	0	0	0	0	0	0	secondary
2	<i>Williamsonia fletcheri</i>	Ebony Boghaunter	G3G4	S2			GRank	50	0	0	1	50	2	100	2
3	<i>Rotala ramosior</i>	Toothcup	G5	S1	END	END	SAR	67	0	0	2	67	3	100	secondary
1	<i>Platanthera leucophaea</i>	Eastern Prairie Fringed-orchid	G2	S2	END	END	GRank SAR	100	0	0	1	100	1	100	all viable
Communities															
1	Slender Sedge Graminoid Fen Type		G4G5	S5			high quality	0	100	0	1	100	1	100	secondary

Ecological systems summary for tertiary watershed 2HM

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	9464.00	3.11	256.38	2.71	456.75	4.83	429.38	4.54
Stream Systems	242980.69	79.94	15513.25	6.38	40878.88	16.82	35638.31	14.67
Lake Systems	10256.63	3.37	2450.50	23.89	4965.13	48.41	4965.13	48.41
Wetland Systems	39099.75	12.86	13894.81	35.54	15316.69	39.17	15316.69	39.17
Tertiary watershed	303948.25	100.00	32785.44	10.79	62287.94	20.49	57019.81	18.76

Ecological systems details for tertiary watershed 2HM

System Integer	# of patches in 2HM	Total area (ha) in 2HM	% of total area in 2HM	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																			
Coastal Systems																			
101	6	39.00	0.01			0.00			0.00			0.00			0.00	3	8.81	8.81	22.60
104	28	62.94	0.02			0.00			0.00	2	0.56	0.89	2	0.56	0.89	6	5.44	5.44	8.64
105	101	614.44	0.20			0.00			0.00	1	4.56	0.74	35	7.69	1.25	39	12.75	12.75	2.08
106	8	10.50	0.00			0.00			0.00			0.00			0.00	5	5.44	5.44	51.79
108	63	161.06	0.05			0.00	13	7.63	4.73	1	1.44	0.89	22	10.75	6.67	41	24.06	24.06	14.94
113	139	116.50	0.04			0.00	3	0.19	0.16	2	2.19	1.88	106	16.13	13.84	145	18.38	18.38	15.77
114	1	0.13	0.00			0.00			0.00			0.00			0.00				0.00
115	31	21.75	0.01			0.00	14	1.56	7.18			0.00	34	4.06	18.68	40	11.56	11.56	53.16
116	50	21.00	0.01			0.00	6	2.81	13.39	1	0.06	0.30	25	4.94	23.51	36	5.56	5.56	26.49
117	2	0.50	0.00			0.00	2	0.13	25.00			0.00	2	0.19	37.50	3	0.19	0.19	37.50
125	131	1864.19	0.61			0.00	7	3.44	0.18	8	4.94	0.26	45	12.19	0.65	64	18.69	18.63	1.00
126	27	433.56	0.14			0.00	2	0.19	0.04			0.00	12	0.81	0.19	15	33.63	14.31	7.76
127	142	5206.81	1.71			0.00	15	7.44	0.14	17	116.81	2.24	86	130.13	2.50	108	243.31	235.31	4.67
199	81	805.38	0.26			0.00	2	3.13	0.39	3	64.44	8.00	9	68.25	8.47	17	68.25	68.25	8.47
Stream Systems																			
201	16	343.06	0.11			0.00			0.00			0.00			0.00	4	175.94	136.44	51.28
202	1	3.50	0.00			0.00			0.00			0.00			0.00				0.00
203	112	27703.69	9.11	3	4.44	0.02	36	260.81	0.94	21	146.88	0.53	224	560.88	2.02	261	957.44	930.50	3.46
204	3	92.63	0.03			0.00			0.00			0.00			0.00	2	92.56	81.75	99.93
205	226	24873.38	8.18	40	121.13	0.49	174	784.81	3.16	45	365.50	1.47	478	1507.50	6.06	610	1859.75	1846.06	7.48
206	51	25394.50	8.35	2	8.13	0.03	5	815.56	3.21	2	42.94	0.17	29	868.50	3.42	35	9418.69	6982.63	37.09
207	1	6.88	0.00			0.00			0.00			0.00			0.00				0.00
208	109	11548.50	3.80	5	56.25	0.49			0.00	6	2.75	0.02	78	67.38	0.58	122	1069.25	1053.19	9.26
209	46	924.63	0.30	4	55.38	5.99	1	29.94	3.24	8	74.75	8.08	13	160.06	17.31	37	395.88	395.88	42.81
210	42	11796.69	3.88			0.00	5	377.44	3.20			0.00	57	382.94	3.25	77	796.81	643.56	6.75
211	215	18776.00	6.18	2	3.81	0.02	62	172.88	0.92	11	119.19	0.63	277	325.81	1.74	332	1209.75	1187.19	6.44
212	5	323.19	0.11			0.00			0.00			0.00			0.00	3	258.19	222.63	79.89
213	706	41105.25	13.52	175	3669.75	8.93	83	2038.38	4.96	58	1610.88	3.92	374	6155.38	14.97	648	8024.06	8024.06	19.52
214	599	30242.25	9.95	121	2027.25	6.70	55	1217.13	4.02	119	1688.31	5.58	406	4430.00	14.65	646	6583.19	6583.19	21.77
215	30	17045.06	5.61			0.00	4	284.31	1.67	8	340.31	2.00	64	630.19	3.70	54	3772.50	2943.69	22.13
216	46	5101.88	1.68			0.00	5	3.00	0.06	6	34.75	0.68	74	46.63	0.91	89	55.56	53.19	1.09
217	50	8845.25	2.91			0.00			0.00	1	33.06	0.37	33	38.19	0.43	50	639.69	633.94	7.23
218	33	7333.94	2.41			0.00	18	18.38	0.25	6	2.44	0.03	66	29.31	0.40	100	29.31	29.31	0.40
221	55	2649.75	0.87	2	0.13	0.00	50	115.31	4.35	1	29.81	1.13	65	148.44	5.60	92	148.31	148.31	5.60
226	13	4916.81	1.62			0.00			0.00			0.00	101	9.69	0.20	8	4364.63	3085.81	88.77
227	13	1612.56	0.53			0.00	7	16.38	1.02	2	22.38	1.39	10	40.25	2.50	15	43.88	43.88	2.72

System Integer	# of patches in 2HM	Total area (ha) in 2HM	% of total area in 2HM	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																			
Stream Systems continued																			
231	27	1163.81	0.38			0.00	31	100.44	8.63	2	3.19	0.27	48	109.00	9.37	70	109.00	109.00	9.37
233	2	764.69	0.25			0.00			0.00			0.00			0.00	3	764.69	447.75	100.00
235	3	109.94	0.04			0.00	4	3.13	2.84			0.00	4	3.13	2.84	1	109.81	56.38	99.89
250	1	0.06	0.00			0.00			0.00			0.00			0.00				0.00
Lake Systems																			
315	24	1140.13	0.38	4	0.25	0.02	2	268.88	23.58	3	47.31	4.15	5	316.19	27.73	6	797.25	797.25	69.93
317	7	707.94	0.23			0.00			0.00	3	171.81	24.27	7	174.25	24.61	7	707.38	707.38	99.92
322	38	1923.06	0.63			0.00	15	521.44	27.11	1	4.94	0.26	142	538.75	28.02	148	1467.75	1467.75	76.32
325	126	51.13	0.02			0.00	1	0.19	0.37	18	3.38	6.60	21	3.69	7.21	31	7.13	7.06	13.94
326	216	264.56	0.09	24	4.13	1.56	18	4.06	1.54	15	25.56	9.66	50	32.00	12.10	71	44.19	44.06	16.70
327	44	21.19	0.01			0.00			0.00	13	5.38	25.37	13	5.38	25.37	14	5.38	5.38	25.37
328	160	61.13	0.02			0.00	1	0.06	0.10			0.00	1	0.06	0.10	4	4.88	4.88	7.98
329	1048	654.69	0.22	318	273.81	41.82	195	74.56	11.39	81	34.56	5.28	435	327.06	49.96	634	360.38	360.38	55.05
330	75	468.94	0.15	10	5.94	1.27			0.00			0.00	25	7.44	1.59	31	318.56	318.56	67.93
331	134	64.00	0.02	3	0.56	0.88	3	9.56	14.94	1	0.19	0.29	12	10.75	16.80	15	13.44	13.44	21.00
332	32	12.00	0.00			0.00	2	3.31	27.60	253	453.94	3782.81	3	3.88	32.29	6	3.88	3.88	32.29
333	3156	4371.88	1.44	479	459.81	10.52	127	186.13	4.26			0.00	824	963.88	22.05	1181	1165.19	1165.19	26.65
334	149	98.00	0.03	28	13.06	13.33	13	9.81	10.01	10	4.56	4.66	43	19.75	20.15	47	19.75	19.75	20.15
335	26	14.63	0.00			0.00			0.00			0.00			0.00				0.00
336	397	403.00	0.13	53	23.56	5.85	10	7.88	1.95	15	17.00	4.22	81	47.44	11.77	89	50.00	50.00	12.41
Wetland Systems																			
401	405	827.19	0.27	4	2.88	0.35	49	86.94	10.51	28	43.13	5.21	194	406.25	49.11	258	412.13	412.13	49.82
402	420	2735.63	0.90	9	13.88	0.51	38	375.81	13.74	22	82.56	3.02	214	1519.38	55.54	320	1663.88	1663.88	60.82
404	6	1122.75	0.37			0.00	2	551.25	49.10	3	217.56	19.38	6	1101.81	98.14	10	1123.38	1123.38	100.00
405	2841	6485.25	2.13	278	550.19	8.48	135	348.81	5.38	125	215.13	3.32	576	1297.13	20.00	780	1398.75	1398.75	21.57
406	1726	22054.25	7.26	192	1102.81	5.00	126	4544.38	20.61	124	546.38	2.48	552	8160.00	37.00	732	9235.81	9235.81	41.88
407	149	270.69	0.09	6	38.56	14.25	17	61.88	22.86	5	3.38	1.25	33	79.88	29.51	39	81.44	81.44	30.09
408	96	295.00	0.10			0.00	5	16.63	5.64	1	0.38	0.13	8	17.19	5.83	16	85.25	85.25	28.90
409	371	927.38	0.31	63	130.44	14.07	30	126.19	13.61	13	22.13	2.39	86	209.75	22.62	110	210.56	210.56	22.71
410	261	1103.50	0.36	58	104.69	9.49	52	239.06	21.66	35	77.56	7.03	109	362.00	32.80	127	364.06	364.06	32.99
Non-Target Ecological Systems																			
Coastal Systems																			
121	6	15.38	0.01			0.00			0.00			0.00	1	0.06	0.41	1	0.06	0.06	0.41
123	3	56.69	0.02			0.00			0.00			0.00			0.00				0.00
124	21	34.19	0.01			0.00	4	0.50	1.46	1	0.13	0.37	5	0.63	1.83	6	0.63	0.63	1.83

System Integer	# of patches in 2HM	Total area (ha) in 2HM	% of total area in 2HM	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Non-Target Ecological Systems continued																			
Wetland Systems																			
411	979	1359.63	0.45	162	198.25	14.58	55	89.75	6.60	60	58.00	4.27	239	298.75	21.97	296	298.75	298.75	21.97
412	801	1918.50	0.63	98	180.13	9.39	68	210.38	10.97	73	139.31	7.26	197	442.69	23.07	227	442.69	442.69	23.07
Unclassified Ecological Systems																			
2	16	302.88	0.10			0.00			0.00			0.00			0.00				0.00
3	2	0.38	0.00			0.00			0.00			0.00			0.00				0.00
5	245	69.25	0.02			0.00	23	6.38	9.21	1	0.06	0.09	47	23.00	33.21	48	22.88	22.88	33.03
6	1936	2077.88	0.68	308	250.19	12.04	223	269.31	12.96	112	225.25	10.84	545	647.50	31.16	739	647.63	647.63	31.17

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and **Additional Designated Natural Heritage Areas** which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Englehart

Tertiary Watershed 2JC

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area: 450,648 hectares (1,113,551 acres)

Land Ownership: Crown Land ~ 50%
Private Land ~ 50%

Planning Authority: 98% Timiskaming District
2% Cochrane District

General Description:

Tertiary watershed 2JC drains into the Ottawa River. There are approximately 367,177 hectares of stream systems, 19,016 hectares of lakes and 63,693 hectares of wetlands. This watershed follows the Quebec border, and extends south to the north end of Lake Timiskaming. Many forest types are present, including mixed, dense deciduous, dense coniferous, sparse deciduous and sparse coniferous forest. Some patches of treed fen are scattered throughout the region. Smaller amounts of open and treed bog are also present.

Land Use:

Agriculture, forestry and development all occur in this watershed, but natural cover dominates. Watershed 2JC contains the communities of Kirkland Lake, Charlton and Englehart, as well as a number of smaller settlements.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2JC is 24,724 hectares, constituting approximately 5.5% of the watershed's total area. The majority of these lands (24,454 ha) are located in provincially protected areas. Approximately 690 hectares are provincially significant life science ANSIs, of which 559 hectares coincide with



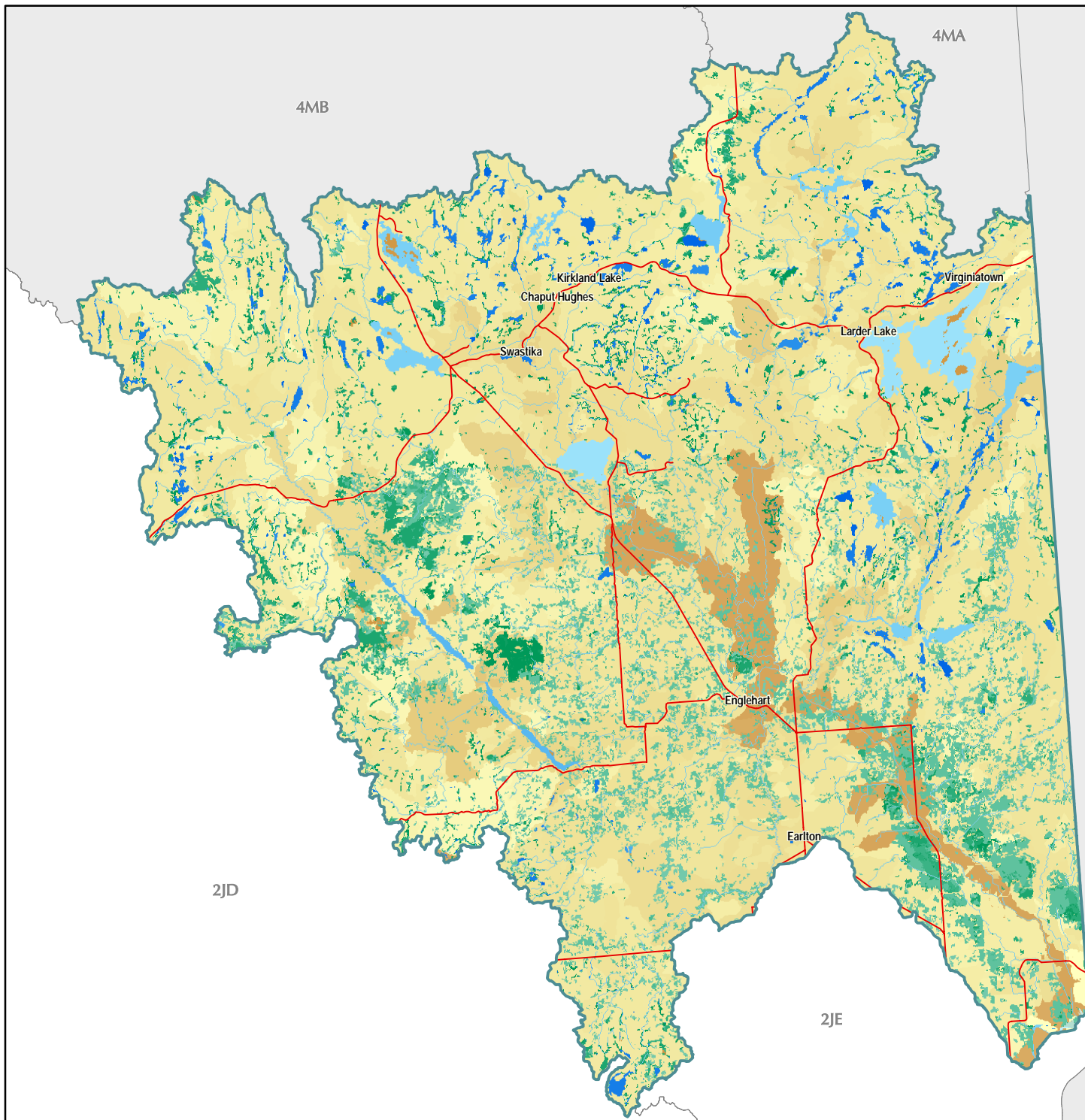
provincial parks. There are about 16,646 hectares of protected stream systems, 2,197 hectares of protected lakes and 5,841 hectares of protected wetlands.

Species and Vegetation Community Targets:

The primary targets in this watershed are Slender Spike Rush (*Eleocharis nitida*) and Auricled Twayblade (*Listera auriculata*). Yellow Rail (*Coturnicops noveboracensis*), a secondary target, is also present. Each of these target species is known from a protected area. There are no documented rare vegetation communities in this watershed.

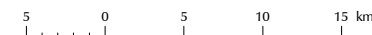
Conservation Blueprint:

The Conservation Blueprint includes 102,160 hectares of stream systems, 8,949 hectares of lakes and 10,769 hectares of wetlands. The Conservation Blueprint also includes occurrences of Slender Spike-rush (2) and Auricled Twayblade (1) and Yellow Rail (1).

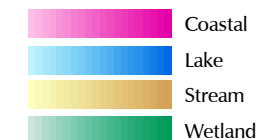


Great Lakes Conservation Blueprint for Biodiversity

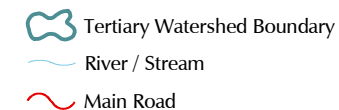
ENGLEHART WATERSHED 2JC



Aquatic Ecological Systems



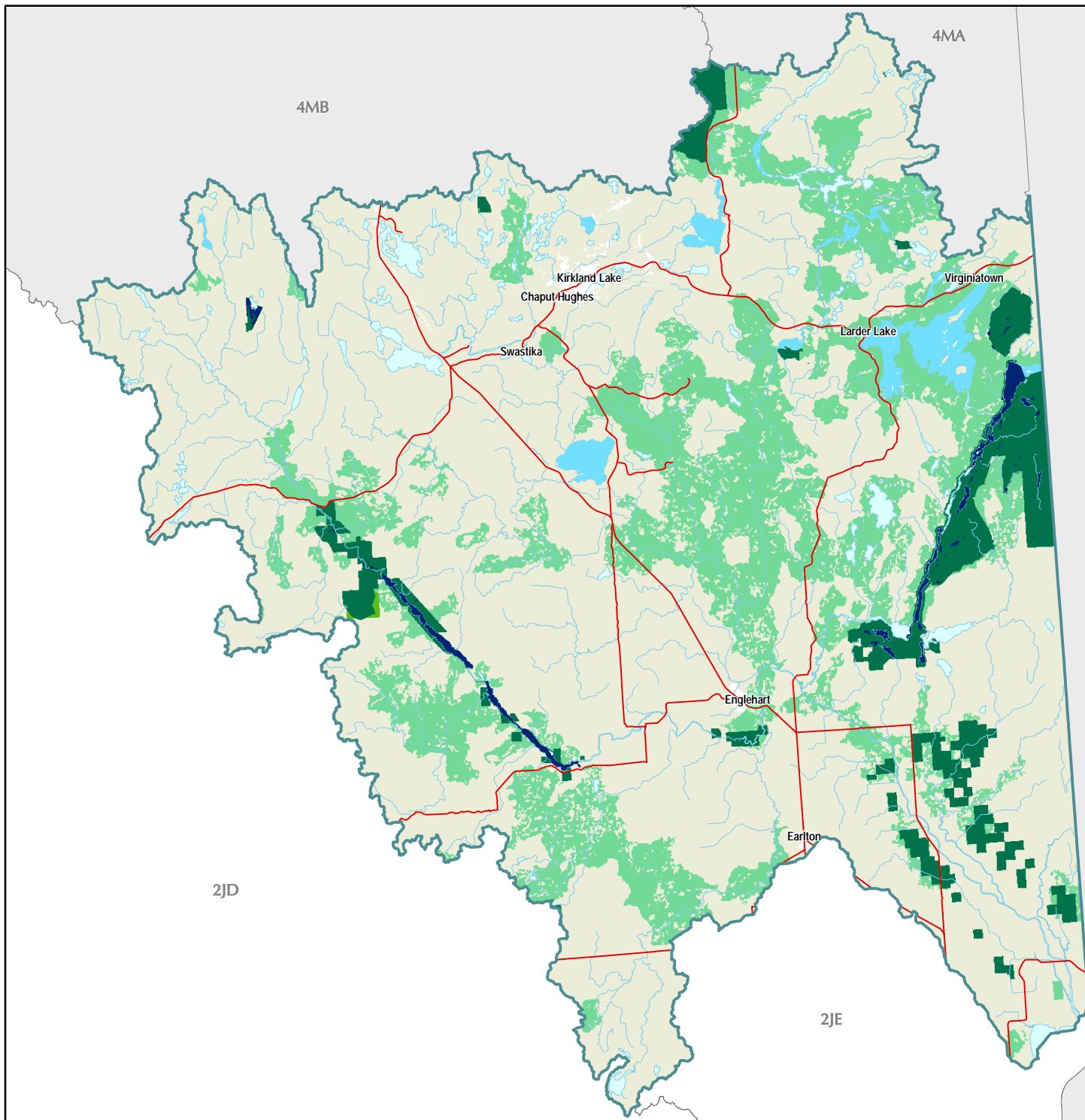
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

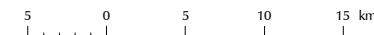
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Great Lakes Conservation Blueprint for Biodiversity

ENGLEHART WATERSHED 2JC



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Documented extant significant species information for tertiary watershed 2JC

# of pops in 2JC	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in Parks and PAs	% of pops in Parks and PAs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species														
1	<i>Coturnicops noveboracensis</i>	Yellow Rail	G4	S4B,SZN	SC	SC	SAR	1	100	1	100	1	100	secondary
2	<i>Eleocharis nitida</i>	Slender Spike-rush	G3G4	S2			GRank	1	50	1	50	2	100	2
1	<i>Listera auriculata</i>	Auricled Twayblade	G3	S3			GRank	1	100	1	100	1	100	2

Ecological systems summary for tertiary watershed 2JC

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stream Systems	367177.13	81.48	16646.19	4.53	102160.13	27.82	101862.38	27.74
Lake Systems	19016.63	4.22	2197.69	11.56	8949.88	47.06	8949.88	47.06
Wetland Systems	63693.31	14.13	5841.38	9.17	10769.13	16.91	10769.13	16.91
Tertiary watershed	450648.75	100.00	24724.31	5.49	121918.19	27.05	121620.44	26.99

Ecological systems details for tertiary watershed 2JC

System Integer	# of patches in 2JC	Total area (ha) in 2JC	% of total area in 2JC	# of patches in Parks and PAs	Total area (ha) Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																
Stream Systems																
202	12	513.88	0.11			0.00			0.00			0.00	6	263.00	263.00	51.18
203	106	7988.13	1.77	7	725.44	9.08	3	55.19	0.69	7	776.88	9.73	25	2404.25	2404.25	30.10
204	13	245.13	0.05			0.00			0.00			0.00	6	235.94	235.94	96.25
205	128	5451.31	1.21	54	281.44	5.16			0.00	54	281.44	5.16	91	1846.88	1846.88	33.88
206	78	12289.44	2.73	2	336.00	2.73			0.00	2	336.00	2.73	14	4346.69	4346.69	35.37
207	2	52.06	0.01			0.00			0.00			0.00	1	51.81	51.81	99.52
208	129	9323.75	2.07	18	166.63	1.79			0.00	18	166.63	1.79	25	1236.63	1236.63	13.26
209	39	2242.94	0.50	7	345.63	15.41			0.00	7	345.63	15.41	19	1216.06	1216.06	54.22
210	99	10166.13	2.26	11	544.25	5.35			0.00	11	544.25	5.35	22	2054.00	2054.00	20.20

System Integer	# of patches in 2JC	Total area (ha) in 2JC	% of total area in 2JC	# of patches in Parks and PAs	Total area (ha) Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Stream Systems continued																
211	311	18044.56	4.00	79	955.94	5.30	10	94.50	0.52	81	983.88	5.45	118	1617.69	1617.69	8.96
212	107	7749.06	1.72	10	935.56	12.07			0.00	10	935.56	12.07	23	1495.75	1495.75	19.30
213	508	54192.88	12.03	29	2265.56	4.18			0.00	29	2265.56	4.18	64	5342.38	5342.38	9.86
214	221	35799.56	7.94	43	415.81	1.16			0.00	43	415.81	1.16	67	3829.63	3829.63	10.70
215	27	323.94	0.07			0.00			0.00			0.00	4	59.31	59.31	18.31
216	163	6213.56	1.38	68	397.81	6.40			0.00	68	397.81	6.40	96	2293.63	2293.63	36.91
217	400	68073.38	15.11	51	2727.75	4.01			0.00	51	2727.75	4.01	74	4339.88	4339.88	6.38
218	248	27175.81	6.03	38	263.31	0.97			0.00	38	263.31	0.97	70	3314.69	3310.44	12.20
219	48	8911.25	1.98	11	149.94	1.68			0.00	11	149.94	1.68	26	6232.81	6232.81	69.94
220	124	14172.00	3.14	3	61.81	0.44			0.00	5	94.94	0.67	51	9414.31	9414.31	66.43
221	117	23529.38	5.22	17	2715.31	11.54			0.00	17	2715.31	11.54	52	12450.69	12306.44	52.92
222	45	10073.00	2.24	1	9.56	0.09			0.00	1	9.56	0.09	29	8352.25	8352.25	82.92
223	38	5161.63	1.15	15	623.00	12.07			0.00	15	623.00	12.07	35	4704.38	4704.38	91.14
224	6	319.69	0.07	3	6.56	2.05			0.00	3	6.56	2.05	6	252.13	252.13	78.87
225	12	181.44	0.04	3	22.13	12.19			0.00	3	22.13	12.19	5	59.00	59.00	32.52
226	99	5566.25	1.24	37	994.81	17.87	13	173.44	3.12	37	1000.00	17.97	82	3387.75	3387.75	60.86
227	70	8722.69	1.94	19	1091.69	12.52			0.00	19	1091.69	12.52	28	2780.88	2780.88	31.88
228	14	612.88	0.14	4	22.88	3.73			0.00	4	22.88	3.73	8	512.44	512.44	83.61
230	10	1804.06	0.40			0.00			0.00			0.00	5	1792.56	1792.56	99.36
231	11	86.00	0.02			0.00			0.00	1	10.81	12.57	4	52.88	52.88	61.48
232	2	64.25	0.01	1	9.31	14.49			0.00	1	9.31	14.49	3	64.25	64.25	100.00
233	17	3944.38	0.88	3	35.94	0.91			0.00	3	35.94	0.91	16	3898.25	3898.25	98.83
234	2	0.31	0.00	1	0.25	80.00			0.00	1	0.25	80.00	1	0.25	0.25	80.00
235	26	941.38	0.21	3	110.69	11.76			0.00	3	110.69	11.76	5	895.38	895.38	95.11
236	1	94.50	0.02			0.00			0.00			0.00	1	94.50	94.50	100.00
246	2	53.75	0.01			0.00			0.00			0.00	3	53.75	53.75	100.00
247	3	3.63	0.00			0.00			0.00			0.00				0.00
248	1	0.19	0.00			0.00			0.00			0.00				0.00
249	5	362.19	0.08	1	29.88	8.25			0.00	1	29.88	8.25	6	293.75	293.75	81.10
250	66	808.13	0.18			0.00			0.00	2	8.75	1.08	57	285.00	285.00	35.27

System Integer	# of patches in 2JC	Total area (ha) in 2JC	% of total area in 2JC	# of patches in Parks and PAs	Total area (ha) Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Stream Systems continued																
251	8	588.69	0.13	2	1.00	0.17			0.00	2	1.00	0.17	3	5.56	5.56	0.94
252	32	709.31	0.16	2	2.88	0.41			0.00	2	2.88	0.41	6	9.88	9.88	1.39
253	38	6882.44	1.53			0.00			0.00			0.00	35	6772.13	6772.13	98.40
254	84	6713.19	1.49	22	217.56	3.24			0.00	24	260.19	3.88	78	3847.19	3697.94	57.31
Lake Systems																
309	11	4863.63	1.08			0.00			0.00			0.00	11	4860.81	4860.81	99.94
315	20	4178.94	0.93	9	610.69	14.61			0.00	9	610.69	14.61	21	940.06	940.06	22.50
317	2	654.25	0.15			0.00			0.00			0.00	5	654.00	654.00	99.96
322	5	861.06	0.19	4	854.19	99.20			0.00	4	854.19	99.20	4	861.00	861.00	99.99
325	17	42.13	0.01	2	7.00	16.62			0.00	2	7.00	16.62	3	7.00	7.00	16.62
326	95	311.94	0.07	3	10.94	3.51			0.00	3	10.94	3.51	6	14.75	14.75	4.73
327	1	0.63	0.00			0.00			0.00			0.00				0.00
328	42	95.06	0.02	2	1.75	1.84			0.00	2	1.75	1.84	4	9.50	9.50	9.99
329	35	122.56	0.03	5	26.38	21.52			0.00	5	26.38	21.52	6	26.38	26.38	21.52
330	41	543.69	0.12			0.00			0.00			0.00	9	372.88	372.88	68.58
331	127	215.50	0.05	8	15.88	7.37			0.00	8	15.88	7.37	9	15.88	15.88	7.37
332	1	0.94	0.00			0.00			0.00			0.00				0.00
333	632	5242.88	1.16	33	537.81	10.26			0.00	33	537.81	10.26	65	783.44	783.44	14.94
334	68	154.00	0.03	4	3.38	2.19			0.00	4	3.38	2.19	4	3.38	3.38	2.19
335	19	40.00	0.01			0.00			0.00			0.00				0.00
336	719	1672.75	0.37	51	127.75	7.64			0.00	51	127.75	7.64	57	398.88	398.88	23.85
Wetland Systems																
401	6	22.50	0.00			0.00			0.00			0.00				0.00
402	3	44.13	0.01			0.00			0.00			0.00				0.00
405	3133	14229.25	3.16	252	863.88	6.07	18	83.56	0.59	260	899.44	6.32	374	1171.19	1171.19	8.23
406	1393	24981.69	5.54	178	2479.38	9.92	4	49.31	0.20	181	2531.06	10.13	209	5741.88	5741.88	22.98
407	456	1596.81	0.35	78	202.31	12.67	2	33.63	2.11	78	202.63	12.69	90	205.94	205.94	12.90
408	165	1718.31	0.38	25	364.88	21.23			0.00	25	364.88	21.23	30	851.00	851.00	49.53
409	1157	4469.94	0.99	131	797.81	17.85	4	146.06	3.27	133	798.81	17.87	189	1089.56	1089.56	24.38
410	438	4069.81	0.90	34	282.38	6.94			0.00	34	282.38	6.94	44	947.38	947.38	23.28

System Integer	# of patches in 2JC	Total area (ha) in 2JC	% of total area in 2JC	# of patches in Parks and PAs	Total area (ha) Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Non-Target Ecological Systems																
Wetland Systems																
411	1808	4256.44	0.94	189	441.88	10.38	15	18.69	0.44	190	442.50	10.40	236	442.50	442.50	10.40
412	1225	8304.44	1.84	71	319.63	3.85	3	17.63	0.21	72	319.69	3.85	91	319.69	319.69	3.85
Unclassified Ecological Systems																
2	32	1025.06	0.23			0.00			0.00			0.00				0.00
3	4	16.69	0.00	2	1.94	11.61			0.00	2	1.94	11.61	2	1.94	1.94	11.61
5	43	2.69	0.00			0.00			0.00			0.00				0.00
6	608	759.00	0.17	53	38.31	5.05	2	18.13	2.39	54	39.06	5.15	59	39.06	39.06	5.15

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Montreal

Tertiary Watershed 2JD

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area: 653,415 hectares (1,614,588 acres)

Land Ownership: Crown Land ~ 85%
Private Land ~ 10%
First Nations Lands ~ 5%

Planning Authority: 85% Timiskaming District
14% Sudbury District
1% Nipissing District

General Description:

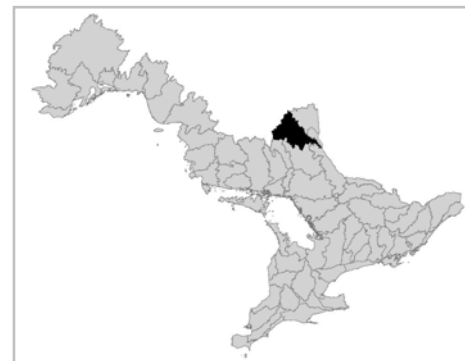
Tertiary watershed 2JD drains into the Ottawa River. There are approximately 547,060 hectares of stream systems, 47,276 hectares of lakes and 56,785 hectares of wetlands. The Montreal River, Obabika Lake, and Lady Evelyn Lake are located in this inland watershed. Mixed forest is the dominant vegetation, followed by dense coniferous forest. Dense and sparse deciduous forests are also scattered throughout the region. There is evidence of recent forest fires in the southern portion of the watershed.

Land Use:

There is relatively little human activity in this watershed, however there is some forestry activity. Latchford is the largest community in this sparsely populated area. Gowganda, Elk Lake, Shining Tree and Matachewan are the other settlements.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2JD is 134,680 hectares, constituting approximately 20.6% of the watershed's total area. All of these lands are located in provincially



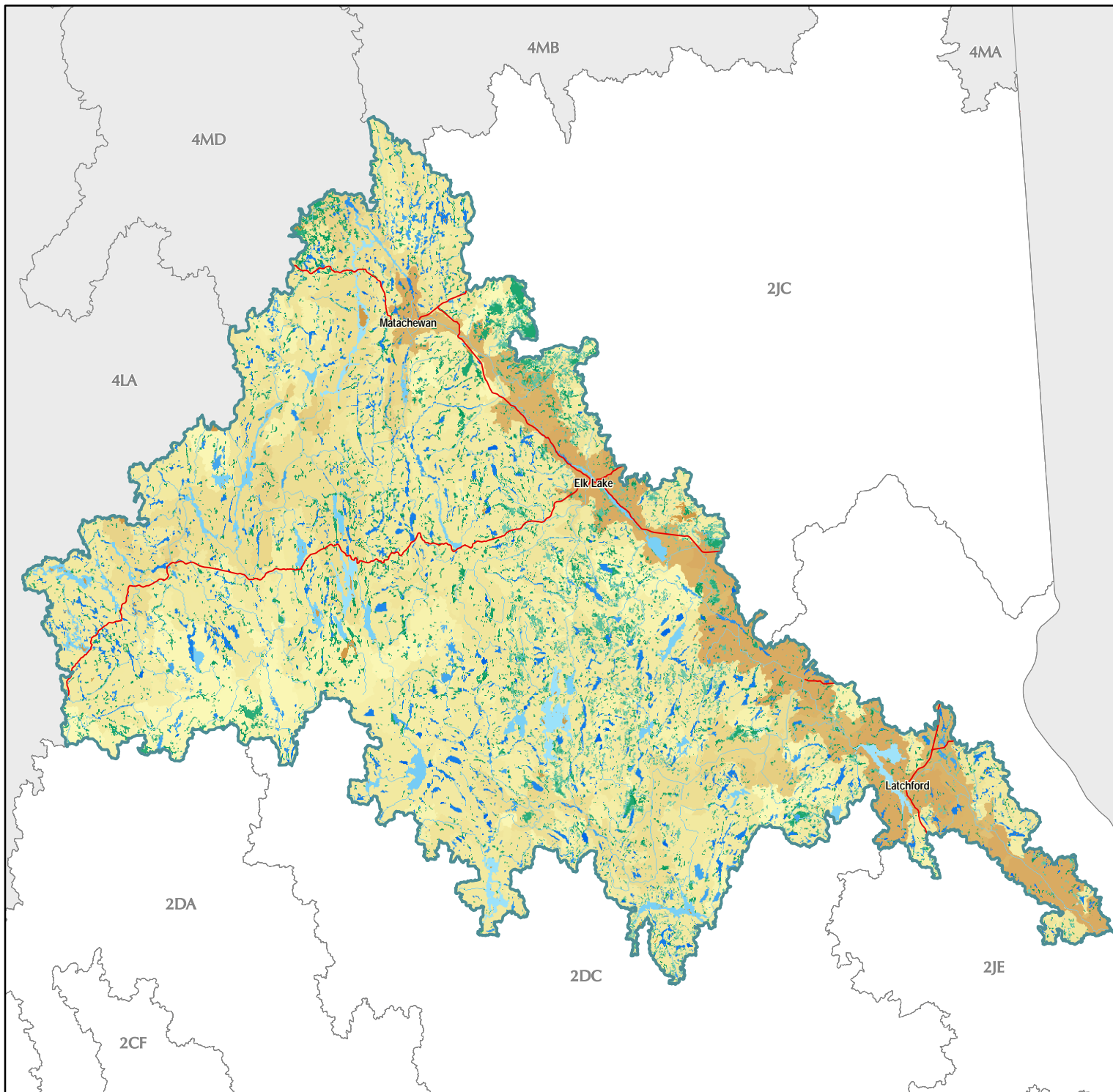
protected areas, including Lady Evelyn Smoothwater Provincial Park. There are approximately 110,093 hectares of protected stream systems, 13,840 hectares of protected lakes and 10,285 hectares of protected wetlands.

Species and Vegetation Community Targets:

The two species targets that occur in watershed 2JD are the primary target, Aurora Trout (*Salvelinus fortinalis timagamiensis*), and Bald Eagle (*Haliaeetus leucocephalus*) which is a secondary target. Aurora Trout occurs within protected areas. There are no documented rare vegetation communities in this watershed.

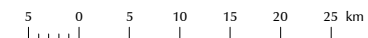
Conservation Blueprint:

The Conservation Blueprint includes 168,112 hectares of stream systems, 17,456 hectares of lakes and 12,298 hectares of wetlands. The Conservation Blueprint also includes both occurrences of Aurora Trout.

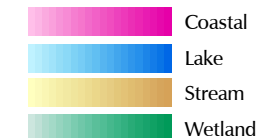


Great Lakes Conservation Blueprint for Biodiversity

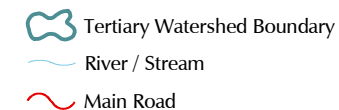
MONTREAL WATERSHED 2JD



Aquatic Ecological Systems



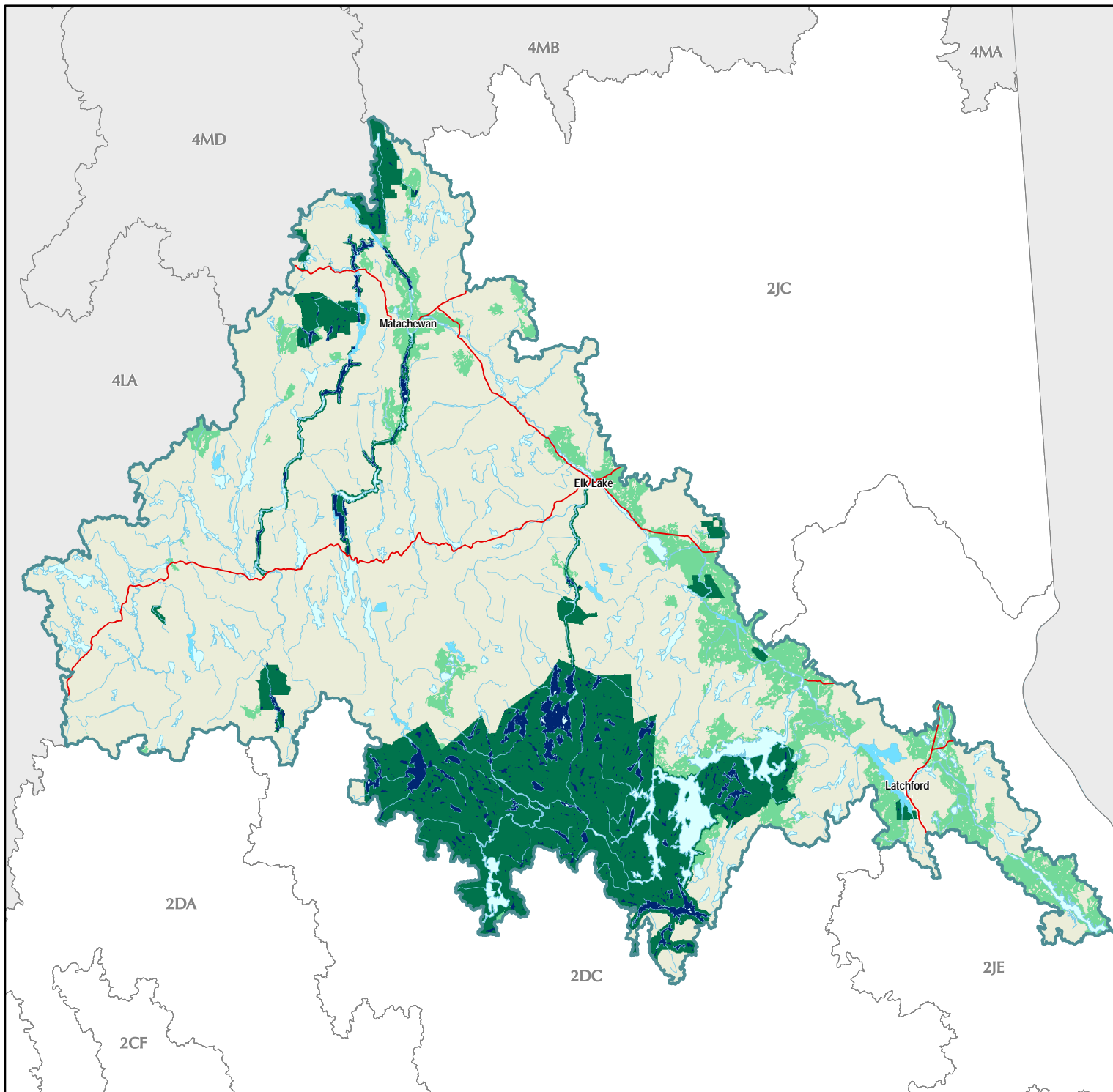
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

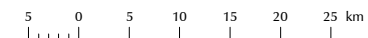
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Great Lakes Conservation Blueprint for Biodiversity

MONTREAL WATERSHED 2JD



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Documented extant significant species information for tertiary watershed 2JD

# pops in 2JD	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in Parks and PAs	% of pops in Parks and PAs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species														
3	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S4B,SZN	NAR	END-R	SAR	0	0	0	0	0	0	secondary
2	<i>Salvelinus fontinalis timagamiensis</i>	Aurora Trout	G5T?	S1	END	END	SAR	2	100	2	100	2	100	4

Ecological systems summary for tertiary watershed 2JD

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stream Systems	547060.38	83.72	110093.25	20.12	168122.19	30.73	167845.38	30.68
Lake Systems	47276.25	7.24	13840.69	29.28	17456.38	36.92	17456.38	36.92
Wetland Systems	56785.06	8.69	10285.50	18.11	12298.25	21.66	12298.25	21.66
Tertiary watershed	653415.31	100.00	134680.88	20.61	198337.31	30.35	198060.50	30.31

Ecological systems details for tertiary watershed 2JD

System Integer	# of patches in 2JD	Total area (ha) in 2JD	% of total area in 2JD	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems													
Stream Systems													
201	4	13.31	0.00			0.00			0.00				0.00
202	4	108.13	0.02	3	49.31	45.61	3	49.31	45.61	11	108.13	108.13	100.00
203	200	14158.25	2.17	24	1767.56	12.48	24	1767.56	12.48	46	2836.75	2836.75	20.04
204	8	1111.19	0.17	1	27.19	2.45	1	27.19	2.45	9	1110.75	1110.75	99.96
205	183	22430.94	3.43	41	2277.88	10.16	41	2277.88	10.16	57	2535.25	2535.25	11.30
206	43	2376.56	0.36	13	804.06	33.83	13	804.06	33.83	17	1386.31	1386.31	58.33
207	8	285.81	0.04			0.00			0.00	5	281.38	281.38	98.45
208	348	33347.50	5.10	32	954.06	2.86	32	954.06	2.86	47	1348.50	1348.50	4.04
209	98	7468.81	1.14	44	5400.19	72.30	44	5400.19	72.30	61	5495.69	5495.69	73.58

System Integer	# of patches in 2JD	Total area (ha) in 2JD	% of total area in 2JD	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued													
Stream Systems continued													
210	66	7566.31	1.16	4	534.94	7.07	4	534.94	7.07	16	3037.69	3037.69	40.15
211	346	34640.50	5.30	94	5987.56	17.28	94	5987.56	17.28	140	6453.94	6453.94	18.63
212	100	7637.38	1.17	23	3085.13	40.40	23	3085.13	40.40	39	3132.00	3132.00	41.01
213	1148	113426.88	17.36	183	20557.63	18.12	183	20557.63	18.12	317	20557.69	20557.69	18.12
214	691	106022.81	16.23	209	28277.63	26.67	209	28277.63	26.67	334	29363.63	29363.63	27.70
215	16	596.75	0.09	2	115.69	19.39	2	115.69	19.39	8	238.13	238.13	39.90
216	71	1928.31	0.30	1	30.00	1.56	1	30.00	1.56	9	514.44	514.44	26.68
217	372	34001.25	5.20	70	8410.75	24.74	70	8410.75	24.74	105	8411.19	8411.19	24.74
218	109	11304.00	1.73	37	2579.50	22.82	37	2579.50	22.82	51	3204.75	3204.75	28.35
219	7	651.25	0.10	1	167.69	25.75	1	167.69	25.75	6	561.06	561.06	86.15
220	9	940.94	0.14	6	482.81	51.31	6	482.81	51.31	15	932.75	932.75	99.13
221	263	61959.75	9.48	125	19500.44	31.47	125	19500.44	31.47	185	20771.75	20771.75	33.52
225	3	43.13	0.01	1	3.13	7.25	1	3.13	7.25	1	3.13	3.13	7.25
226	61	8236.56	1.26	43	4185.94	50.82	43	4185.94	50.82	62	5616.69	5616.69	68.19
227	72	7437.94	1.14	12	541.69	7.28	12	541.69	7.28	18	1657.25	1657.25	22.28
228	11	123.69	0.02	1	3.06	2.48	1	3.06	2.48	6	57.19	57.19	46.24
231	18	4256.00	0.65	6	2692.50	63.26	6	2692.50	63.26	15	3170.63	3170.63	74.50
235	13	272.63	0.04	15	111.81	41.01	15	111.81	41.01	19	224.81	224.81	82.46
236	1	9.19	0.00	1	9.19	100.00	1	9.19	100.00	1	9.19	9.19	100.00
238	6	230.44	0.04			0.00			0.00	3	183.38	183.38	79.58
239	2	2.00	0.00			0.00			0.00				0.00
240	1	14.44	0.00			0.00			0.00				0.00
241	30	4379.81	0.67	4	69.44	1.59	4	69.44	1.59	15	4196.25	4196.25	95.81
242	3	495.50	0.08	1	1.69	0.34	1	1.69	0.34	3	495.50	495.50	100.00
243	3	796.75	0.12			0.00			0.00	3	796.56	671.31	99.98
244	9	1573.75	0.24	1	6.38	0.41	1	6.38	0.41	9	1529.13	1529.13	97.16
247	84	18579.50	2.84	5	657.75	3.54	5	657.75	3.54	19	9503.94	9352.38	51.15
248	14	96.50	0.01	2	6.25	6.48	2	6.25	6.48	5	13.81	13.81	14.31
250	177	38336.19	5.87	12	783.13	2.04	12	783.13	2.04	56	28206.69	28206.69	73.58

System Integer	# of patches in 2JD	Total area (ha) in 2JD	% of total area in 2JD	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued													
Stream Systems continued													
251	2	165.19	0.03			0.00			0.00	4	165.00	165.00	99.89
254	1	6.94	0.00			0.00			0.00				0.00
Lake Systems													
306	2	1441.00	0.22			0.00			0.00	6	1440.94	1440.94	100.00
309	16	5206.44	0.80	17	3711.44	71.29	17	3711.44	71.29	25	4214.69	4214.69	80.95
315	61	9553.44	1.46	12	2546.06	26.65	12	2546.06	26.65	37	2579.88	2579.88	27.00
317	12	2200.19	0.34	9	1495.63	67.98	9	1495.63	67.98	12	1617.69	1617.69	73.52
325	53	285.56	0.04	4	4.75	1.66	4	4.75	1.66	19	13.69	13.69	4.79
326	330	3815.63	0.58	48	644.69	16.90	48	644.69	16.90	76	988.81	988.81	25.91
327	27	262.75	0.04	6	15.63	5.95	6	15.63	5.95	8	200.75	200.75	76.40
328	123	264.31	0.04	22	77.50	29.32	22	77.50	29.32	26	79.94	79.94	30.24
329	165	759.44	0.12	65	333.44	43.91	65	333.44	43.91	95	333.44	333.44	43.91
330	176	2179.81	0.33	14	163.31	7.49	14	163.31	7.49	32	630.19	630.19	28.91
331	210	952.75	0.15	24	180.88	18.98	24	180.88	18.98	27	462.13	462.13	48.50
332	27	36.00	0.01	1	1.75	4.86	1	1.75	4.86	3	2.06	2.06	5.73
333	1778	16307.94	2.50	300	3565.88	21.87	300	3565.88	21.87	442	3786.50	3786.50	23.22
334	262	484.88	0.07	88	138.63	28.59	88	138.63	28.59	96	138.63	138.63	28.59
335	91	340.75	0.05	9	43.88	12.88	9	43.88	12.88	14	49.81	49.81	14.62
336	1100	3185.38	0.49	208	917.25	28.80	208	917.25	28.80	226	917.25	917.25	28.80
Wetland Systems													
401	35	93.88	0.01	21	27.31	29.09	21	27.31	29.09	26	44.44	44.44	47.34
402	11	78.13	0.01	10	8.94	11.44	10	8.94	11.44	6	66.50	66.50	85.12
405	3209	11215.19	1.72	888	2793.69	24.91	888	2793.69	24.91	1301	2793.63	2793.63	24.91
406	788	6681.88	1.02	222	1592.88	23.84	222	1592.88	23.84	258	1699.38	1699.38	25.43
407	189	937.69	0.14	58	256.44	27.35	58	256.44	27.35	84	262.69	262.69	28.01
408	56	369.25	0.06	9	40.13	10.87	9	40.13	10.87	13	85.63	85.63	23.19
409	1866	6259.00	0.96	322	1170.75	18.71	322	1170.75	18.71	376	1520.13	1520.13	24.29
410	893	7164.50	1.10	196	884.38	12.34	196	884.38	12.34	223	2314.75	2314.75	32.31

System Integer	# of patches in 2JD	Total area (ha) in 2JD	% of total area in 2JD	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Non-Target Ecological Systems													
Wetland Systems													
411	4909	10706.81	1.64	1019	1724.31	16.10	1019	1724.31	16.10	1189	1724.38	1724.38	16.11
412	2762	13278.75	2.03	602	1786.69	13.46	602	1786.69	13.46	738	1786.75	1786.75	13.46
Unclassified Ecological Systems													
2	16	27.63	0.00	4	11.31	40.95	4	11.31	40.95	7	11.31	11.31	40.95
5	41	2.56	0.00	11	0.69	26.83	11	0.69	26.83				0.00
6	2205	2291.06	0.35	524	460.75	20.11	524	460.75	20.11	582	460.50	460.50	20.10

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Upper Ottawa – Kipawa

Tertiary Watershed 2JE

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area: 634,299 hectares (1,567,352 acres)

Land Ownership: Crown Land ~ 80%
Private Land ~ 20%

Planning Authority: 82% Nipissing District
18% Timiskaming District

General Description:

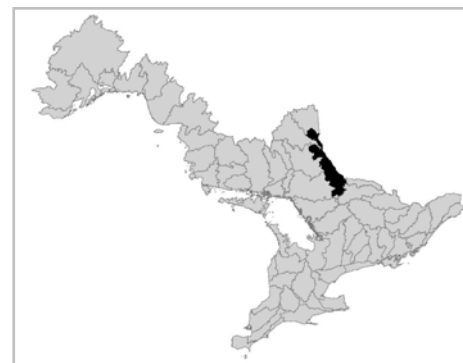
Tertiary watershed 2JE drains into the Ottawa River. There are approximately 547,443 hectares of stream systems, 42,487 hectares of lakes and 42,495 hectares of wetlands. Lake Timiskaming, the Ottawa River, and part of the Mattawa River bound this long, narrow watershed. Mixed forests and dense deciduous forest are the dominant vegetation types. Dense coniferous forest, sparse coniferous forest and sparse deciduous forest also occur throughout the watershed. Treed fens and treed bogs are the major wetland types in the region.

Land Use:

Human activity in watershed 2JE includes areas of agriculture and forestry, and a small number of towns. The largest communities are Thornloe, New Liskeard, Cobalt, and Mattawa, however much of the area remains unpopulated.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2JE is 113,411 hectares, constituting approximately 17.9% of the watershed's total area. The majority of these lands (113,371 ha) are located



in provincially protected areas, including portions of Algonquin Provincial Park. There are approximately 92,043 hectares of protected stream systems, 14,485 hectares of protected lakes and 6,555 hectares of protected wetlands.

Species and Vegetation Community Targets:

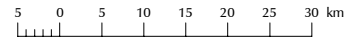
Wood Turtle (*Glyptemys insculpta*), a secondary target, is the only species target known in the watershed. This species occurs outside of protected areas. There are no documented rare vegetation communities in this watershed.

Conservation Blueprint:

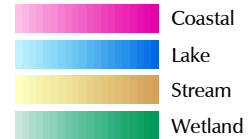
The Conservation Blueprint includes 126,885 hectares of stream systems, 17,524 hectares of lakes and 8,346 hectares of wetlands and does not include the Wood Turtle population.

Great Lakes Conservation Blueprint for Biodiversity

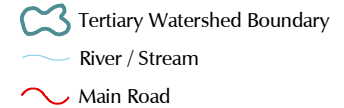
UPPER OTTAWA - KIPAWA WATERSHED 2JE



Aquatic Ecological Systems



Other Information



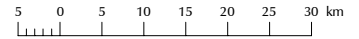
Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

UPPER OTTAWA - KIPAWA WATERSHED 2JE

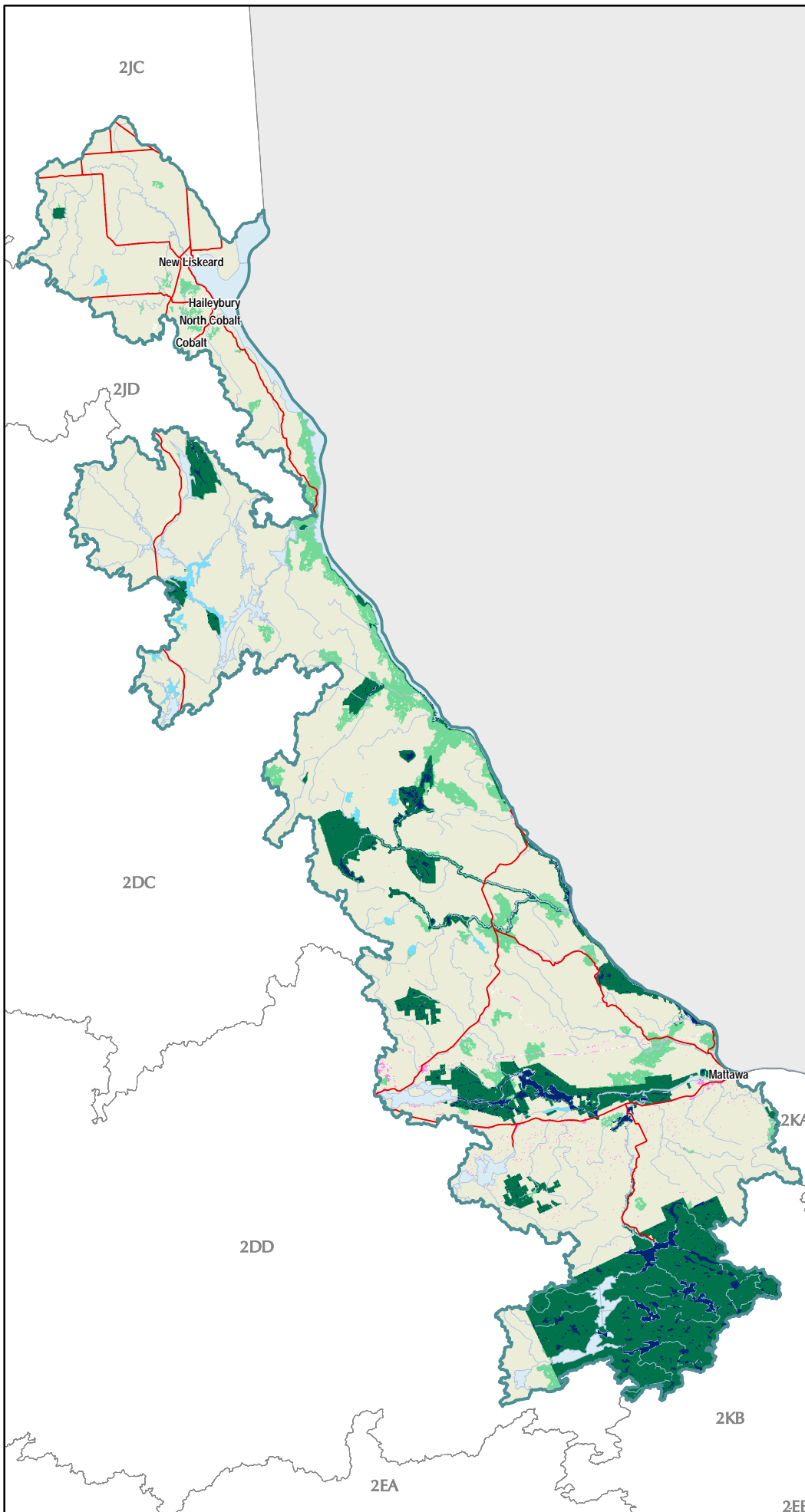


Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Documented extant significant species information for tertiary watershed 2JE

Number of pops in 2JE	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in the portfolio	% of pops in the portfolio	Goal
Species										
1	<i>Glyptemys insculpta</i>	Wood Turtle	G4	S2	SC	END	SAR	0	0	secondary

Ecological systems summary for tertiary watershed 2JE

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stream Systems	547443.63	86.31	92043.50	16.81	126885.94	23.18	126726.19	23.15
Lake Systems	42487.25	6.70	14485.50	34.09	17524.75	41.25	17524.75	41.25
Wetland Systems	42495.44	6.70	6555.25	15.43	8346.31	19.64	8346.31	19.64
Tertiary watershed	634299.94	100.00	113411.88	17.88	153087.06	24.13	152927.31	24.11

Ecological systems details for tertiary watershed 2JE

System Integer	# of patches in 2JE	Total area (ha) in 2JE	% of total area in 2JE	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems													
Stream Systems													
201	27	2098.81	0.33	11	834.19	39.75	11	834.19	39.75	13	834.25	834.25	39.75
202	11	1205.06	0.19	4	86.75	7.20	4	86.75	7.20	5	767.88	736.94	63.72
203	183	18730.06	2.95	75	5170.88	27.61	75	5170.88	27.61	101	5171.06	5171.06	27.61
204	16	797.88	0.13	4	57.38	7.19	4	57.38	7.19	10	701.50	701.50	87.92
205	160	16311.38	2.57	87	4875.06	29.89	87	4875.06	29.89	134	4875.13	4875.13	29.89
206	46	4794.50	0.76	11	576.50	12.02	11	576.50	12.02	17	588.50	588.50	12.27
207	13	977.25	0.15	6	31.75	3.25	6	31.75	3.25	12	393.88	388.25	40.30
208	287	27028.50	4.26	122	7241.94	26.79	124	7243.81	26.80	182	7543.63	7543.63	27.91
209	122	11928.25	1.88	43	3052.56	25.59	43	3052.56	25.59	72	3462.31	3462.31	29.03
210	118	25064.88	3.95	22	739.31	2.95	22	739.31	2.95	34	739.75	739.75	2.95
211	208	27385.13	4.32	55	8025.31	29.31	55	8025.31	29.31	85	8025.44	8025.44	29.31

System Integer	# of patches in 2JE	Total area (ha) in 2JE	% of total area in 2JE	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued													
Stream Systems continued													
212	136	14313.44	2.26	12	950.69	6.64	12	950.69	6.64	17	1782.00	1782.00	12.45
213	701	107141.38	16.89	172	13844.69	12.92	172	13844.69	12.92	254	14392.38	14392.38	13.43
214	326	48397.69	7.63	91	8687.00	17.95	91	8687.00	17.95	147	8821.75	8821.75	18.23
215	10	2028.88	0.32	3	49.69	2.45	3	49.69	2.45	10	1823.13	1823.13	89.86
216	28	4871.75	0.77	1	158.94	3.26	1	158.94	3.26	1	207.69	207.69	4.26
217	419	76433.69	12.05	56	3253.63	4.26	57	3258.31	4.26	68	3258.00	3258.00	4.26
218	59	6844.75	1.08	12	136.50	1.99	12	136.50	1.99	14	477.75	477.75	6.98
219	54	6557.69	1.03	11	2024.56	30.87	11	2024.56	30.87	27	2226.63	2226.63	33.95
220	57	18406.44	2.90	20	1776.56	9.65	27	1779.38	9.67	44	5152.44	5152.44	27.99
221	133	36105.50	5.69	99	6447.31	17.86	108	6465.69	17.91	227	6922.50	6922.50	19.17
222	21	441.31	0.07	3	40.06	9.08	3	40.06	9.08	16	41.06	41.06	9.30
223	21	1471.31	0.23	8	486.06	33.04	8	486.06	33.04	14	1275.19	1273.75	86.67
224	2	49.31	0.01	1	15.56	31.56	1	15.56	31.56	1	15.56	15.56	31.56
225	9	2288.94	0.36	5	244.25	10.67	5	244.25	10.67	10	2181.00	2121.44	95.28
226	73	12932.06	2.04	61	9772.75	75.57	61	9772.75	75.57	127	10268.50	10268.50	79.40
227	77	12008.88	1.89	46	2163.75	18.02	46	2166.13	18.04	85	2217.94	2217.94	18.47
228	8	406.38	0.06	3	179.94	44.28	3	179.94	44.28	4	327.31	327.31	80.54
229	3	0.19	0.00	3	0.19	100.00	3	0.19	100.00	1	0.06	0.06	33.33
230	4	61.63	0.01	1	4.56	7.40	1	4.56	7.40	2	61.19	61.19	99.29
231	16	1444.25	0.23	19	238.50	16.51	19	238.50	16.51	21	1186.69	1186.69	82.17
233	24	3945.00	0.62	25	2091.88	53.03	25	2091.88	53.03	33	2091.81	2091.81	53.02
234	6	319.69	0.05	5	295.56	92.45	5	295.56	92.45	5	295.56	295.56	92.45
235	11	2514.56	0.40	12	968.38	38.51	12	968.38	38.51	15	2495.69	2482.13	99.25
236	1	14.00	0.00	1	14.00	100.00	1	14.00	100.00	1	14.00	14.00	100.00
238	1	47.81	0.01	2	15.94	33.33	2	15.94	33.33	2	15.94	15.94	33.33
239	1	2.31	0.00	1	2.06	89.19	1	2.06	89.19	1	2.06	2.06	89.19
240	2	38.38	0.01	1	26.69	69.54	1	26.69	69.54	1	26.69	26.69	69.54
242	7	1508.94	0.24	3	77.94	5.17	3	77.94	5.17	8	1389.88	1389.88	92.11
243	14	1.50	0.00			0.00			0.00	14	1.56	1.44	100.00
244	28	2045.75	0.32	3	303.13	14.82	3	303.13	14.82	27	2033.19	2033.19	99.39
245	1	72.94	0.01	1	3.38	4.63	1	3.38	4.63	1	72.94	72.94	100.00
246	4	546.31	0.09	6	54.63	10.00	6	54.63	10.00	4	546.31	546.31	100.00
247	36	933.56	0.15	5	261.44	28.00	5	261.44	28.00	46	693.81	693.06	74.32

System Integer	# of patches in 2JE	Total area (ha) in 2JE	% of total area in 2JE	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued													
Stream Systems continued													
248	19	1806.75	0.28	6	238.25	13.19	6	238.25	13.19	9	572.13	572.13	31.67
249	3	63.75	0.01	1	0.31	0.49	1	0.31	0.49	4	63.75	58.44	100.00
250	302	31666.44	4.99	125	4248.94	13.42	125	4248.94	13.42	366	13087.94	13087.94	41.33
251	5	904.06	0.14	4	56.06	6.20	4	56.06	6.20	4	903.75	880.13	99.97
253	10	757.00	0.12	1	3.25	0.43	1	3.25	0.43	4	691.31	691.25	91.32
254	10	5690.94	0.90	17	1647.69	28.95	17	1647.69	28.95	28	5608.38	5589.63	98.55
Lake Systems													
306	3	1469.50	0.23	3	1469.50	100.00	3	1469.50	100.00	4	1469.50	1469.50	100.00
309	13	5351.75	0.84	3	2356.56	44.03	3	2356.56	44.03	36	3558.63	3558.63	66.49
315	36	6885.25	1.09	6	1904.00	27.65	6	1904.00	27.65	13	1904.00	1904.00	27.65
317	12	2988.94	0.47	7	2600.81	87.01	7	2600.81	87.01	10	2600.81	2600.81	87.01
320	2	451.00	0.07			0.00			0.00	9	451.00	451.00	100.00
324	1	217.69	0.03			0.00			0.00	2	217.69	217.69	100.00
325	95	732.19	0.12	27	272.38	37.20	27	272.38	37.20	54	381.50	381.50	52.10
326	464	2989.75	0.47	139	1171.13	39.17	139	1171.13	39.17	224	1352.25	1352.25	45.23
327	51	375.19	0.06	16	265.63	70.80	16	265.63	70.80	25	267.19	267.19	71.21
328	136	199.50	0.03	24	16.00	8.02	24	16.00	8.02	33	17.38	17.38	8.71
329	631	1596.50	0.25	82	63.19	3.96	82	63.19	3.96	130	180.81	180.81	11.33
330	306	2420.19	0.38	65	816.56	33.74	65	816.56	33.74	98	1291.13	1291.13	53.35
331	451	752.94	0.12	95	343.88	45.67	95	343.88	45.67	108	344.94	344.94	45.81
332	55	59.19	0.01	23	24.88	42.03	23	24.88	42.03	26	28.75	28.75	48.57
333	2730	12349.88	1.95	479	2346.75	19.00	479	2347.06	19.00	761	2445.31	2445.31	19.80
334	375	340.75	0.05	49	69.06	20.27	50	70.00	20.54	57	70.00	70.00	20.54
335	188	677.00	0.11	47	232.06	34.28	47	232.06	34.28	53	375.63	375.63	55.48
336	2007	2617.38	0.41	276	528.44	20.19	280	531.88	20.32	316	568.25	568.25	21.71
Wetland Systems													
401	19	34.63	0.01			0.00			0.00				0.00
402	4	13.06	0.00			0.00			0.00				0.00
405	1412	5831.13	0.92	64	136.56	2.34	65	136.81	2.35	99	315.13	315.13	5.40
406	397	5753.13	0.91	10	89.06	1.55	10	89.06	1.55	21	1210.00	1210.00	21.03
407	129	604.19	0.10	11	37.94	6.28	11	37.94	6.28	19	84.88	84.88	14.05
408	35	483.81	0.08	14	275.94	57.03	14	275.94	57.03	19	327.94	327.94	67.78

System Integer	# of patches in 2JE	Total area (ha) in 2JE	% of total area in 2JE	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) In the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued													
Wetland Systems continued													
409	1160	3517.75	0.55	150	614.13	17.46	151	614.50	17.47	164	632.56	632.56	17.98
410	999	5410.75	0.85	342	1418.13	26.21	342	1418.56	26.22	364	1793.31	1793.31	33.14
Non-Target Ecological Systems													
Wetland Systems													
411	3974	7363.44	1.16	769	1335.13	18.13	775	1338.75	18.18	940	1338.75	1338.75	18.18
412	4051	13483.56	2.13	995	2642.56	19.60	999	2643.69	19.61	1206	2643.75	2643.75	19.61
Unclassified Ecological Systems													
2	102	6036.81	0.95	51	537.06	8.90	51	537.06	8.90	107	537.19	537.19	8.90
3	3	12.69	0.00			0.00			0.00				0.00
5	2	0.13	0.00			0.00			0.00				0.00
6	2285	1873.50	0.30	479	327.63	17.49	479	327.63	17.49	559	330.06	330.06	17.62

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Petawawa

Tertiary Watershed 2KA

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area: 168,567 hectares (416,529 acres)

Land Ownership: Crown Land ~ 60%
Private Land ~ 40%

Planning Authority: 70% Renfrew County
30% Nipissing District

General Description:

Tertiary watershed 2KA drains into the Ottawa River. There are approximately 150,216 hectares of stream systems, 5,870 hectares of lakes and 11,915 hectares of wetlands. This long, narrow watershed follows the Ottawa River from Mattawa into Holden Lake, and extends nearly to Petawawa. Mixed coniferous forest is the dominant vegetation cover, followed by mixed deciduous forest. Dense deciduous and coniferous forests, and sparse deciduous and coniferous forests are also scattered throughout the region. The primary wetland type is treed bog.

Land Use:

A low level of human land use characterizes this watershed. A few patches of recent cutover occur and there are a small number of developed areas. Deep River is the largest community within the watershed. Other settlements are located along the Ottawa River including Deux Rivières, Bisset Creek, Stonecliffe and Point Alexander. The area is largely unpopulated further south along the Ottawa River.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2KA is 22,329 hectares, constituting approximately 13.2% of the



watershed's total area. The majority of these lands (21,958 ha) are in provincially protected areas, including the northeast corner of Algonquin Provincial Park. There are approximately 19,014 hectares of protected stream systems, 1,277 hectares of protected lakes and 1,892 hectares of protected wetlands.

Species and Vegetation Community Targets:

Redside Dace (*Clinostomus elongatus*) and Wood Turtle (*Glyptemys insculpta*), both secondary targets, are the only species targets known to occur in the watershed. Redside Dace occurs in a protected area. There are no documented rare vegetation communities in this watershed.

Conservation Blueprint:

The Conservation Blueprint includes 50,727 hectares of stream systems, 2,008 hectares of lakes and 2,027 hectares of wetlands. The Conservation Blueprint also includes all of the known occurrences of Redside Dace and Wood Turtle.

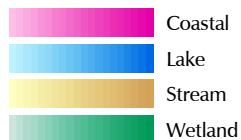
Great Lakes Conservation Blueprint for Biodiversity

PETAWAWA WATERSHED 2KA

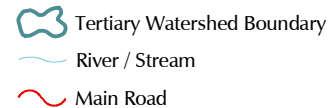
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Aquatic Ecological Systems



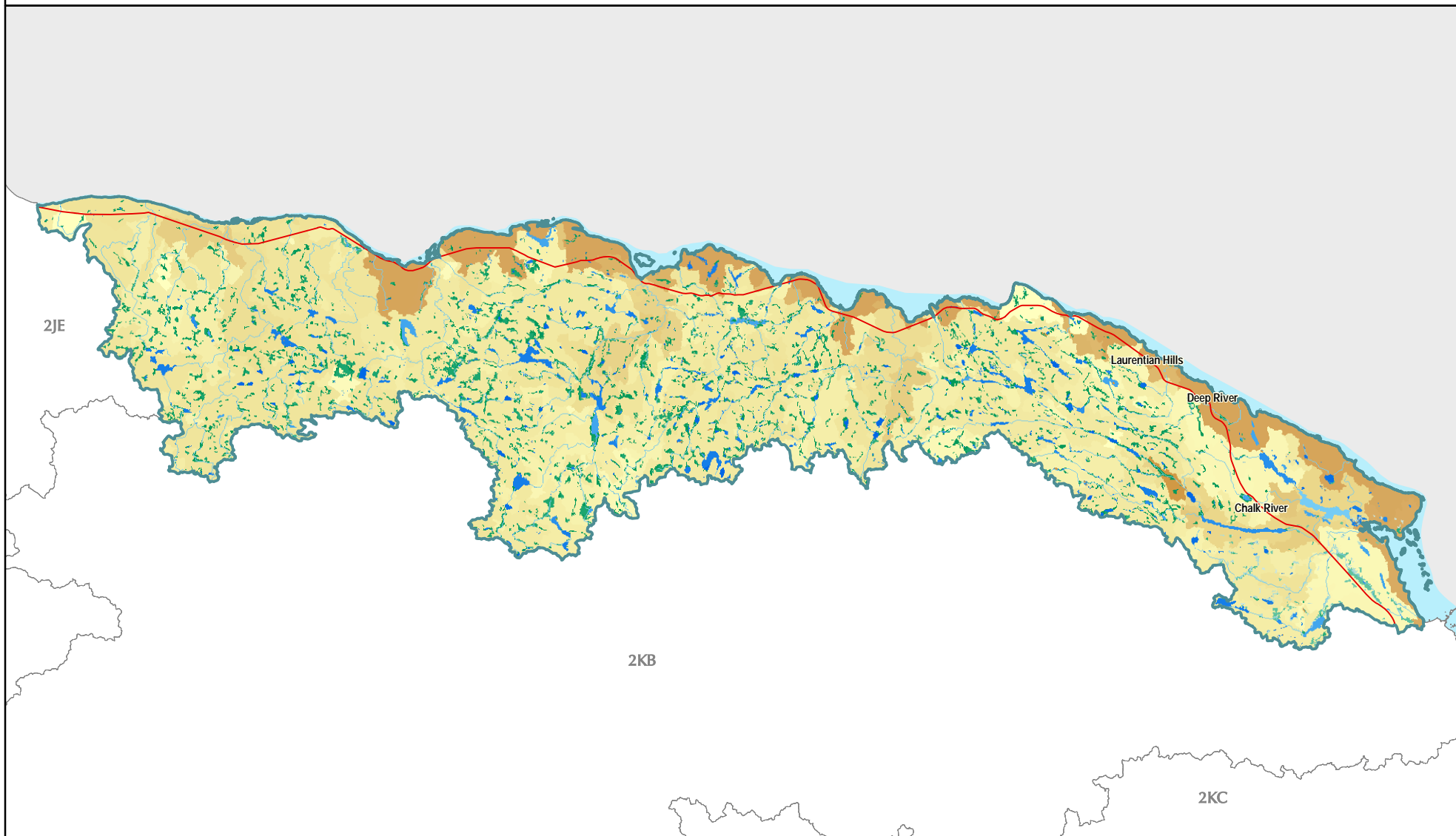
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

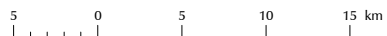
For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

PETAWAWA WATERSHED 2KA



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

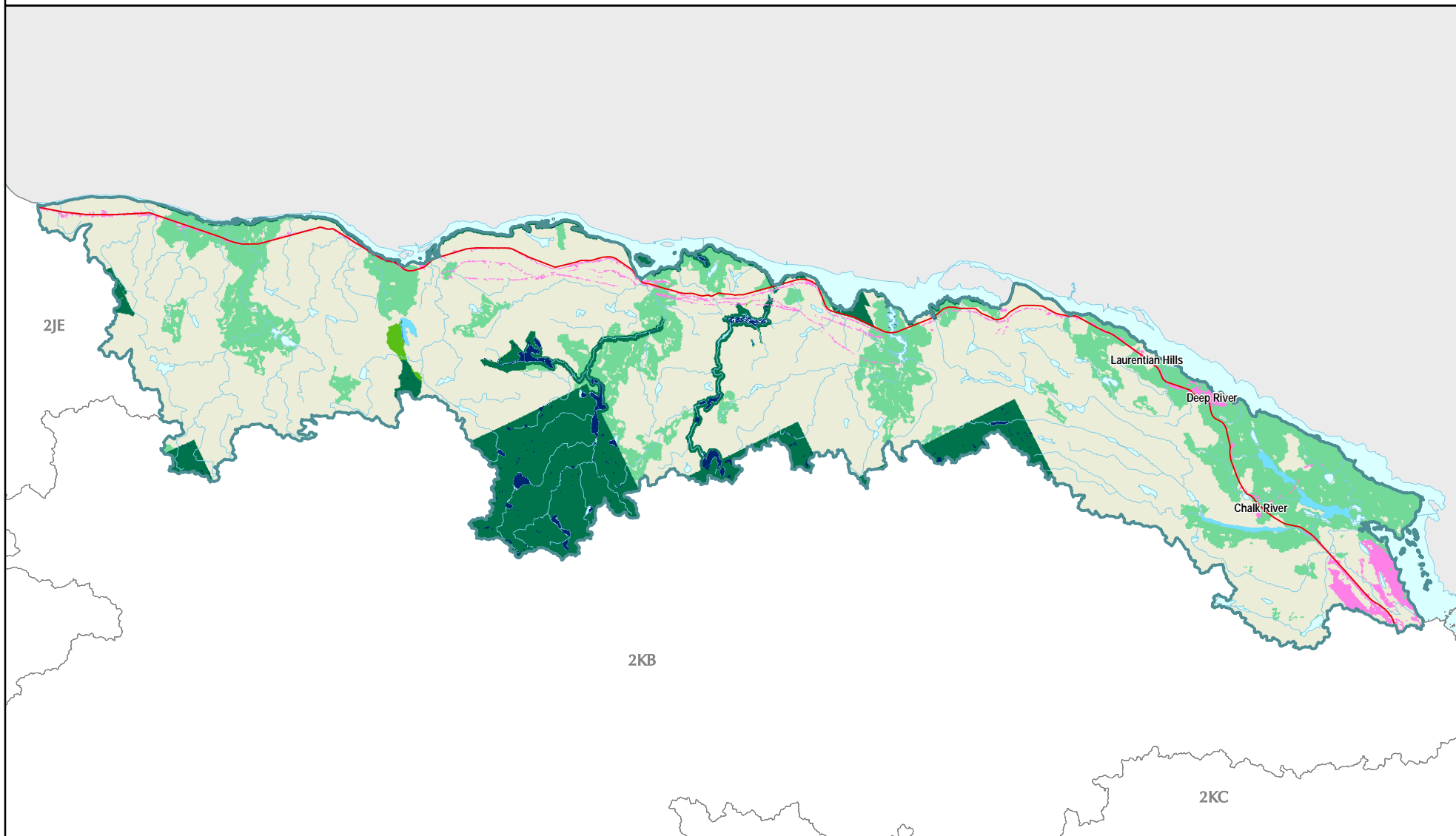
- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Documented extant significant species information for tertiary watershed 2KA

# of pops in 2KA	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in Parks and PAs	% of pops in Parks and PAs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species														
1	<i>Clinostomus elongatus</i>	Redside Dace	G4	S3	SC	THR	SAR	1	100	1	100	1	100	secondary
1	<i>Glyptemys insculpta</i>	Wood Turtle	G4	S2	SC	END	SAR	0	0	0	0	1	100	secondary

Ecological systems summary for tertiary watershed 2KA

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stream Systems	150216.31	89.11	19014.19	12.66	50727.88	33.77	49676.13	33.07
Lake Systems	5870.06	3.48	1277.19	21.76	2008.13	34.21	2008.13	34.21
Wetland Systems	11915.44	7.07	1892.50	15.88	2027.38	17.01	2027.38	17.01
Tertiary watershed	168567.00	100.00	22329.88	13.25	54909.31	32.57	53857.56	31.95

Ecological systems details for tertiary watershed 2KA

System Integer	# patches in 2KA	Total area (ha) in 2KA	% of total area in 2KA	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																
Stream Systems																
201	2	100.31	0.06			0.00			0.00			0.00	4	100.19	100.19	99.88
202	8	495.56	0.29	2	26.81	5.41			0.00	2	26.81	5.41	7	451.88	441.13	91.18
203	79	6235.13	3.70	26	1452.19	23.29			0.00	26	1452.19	23.29	47	2144.81	2144.81	34.40
204	19	655.94	0.39	12	107.00	16.31			0.00	12	107.00	16.31	14	350.81	346.31	53.48
205	24	4119.06	2.44			0.00			0.00			0.00	14	3024.19	2961.50	73.42
206	29	2180.56	1.29	7	448.75	20.58	2	22.88	1.05	9	471.63	21.63	21	1245.88	1245.88	57.14
207	5	200.00	0.12	2	162.19	81.09			0.00	2	162.19	81.09	2	162.13	162.13	81.06
208	55	5030.00	2.98	34	2143.56	42.62			0.00	34	2143.56	42.62	43	2143.44	2143.44	42.61
209	67	3843.44	2.28	19	347.75	9.05	3	37.13	0.97	19	347.75	9.05	30	787.19	787.19	20.48

System Integer	# patches in 2KA	Total area (ha) in 2KA	% of total area in 2KA	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Stream Systems continued																
210	93	13179.31	7.82	37	633.06	4.80	3	167.56	1.27	39	699.00	5.30	47	699.00	699.00	5.30
211	81	7113.25	4.22	46	3271.19	45.99			0.00	50	3272.25	46.00	68	3438.81	3438.81	48.34
212	41	3101.06	1.84	13	241.25	7.78			0.00	13	241.25	7.78	16	283.69	283.69	9.15
213	249	25855.25	15.34	77	4279.75	16.55	7	221.13	0.86	78	4352.06	16.83	120	4352.19	4352.19	16.83
214	125	11545.50	6.85	37	1920.06	16.63	7	454.31	3.93	38	2078.81	18.01	51	2161.75	2161.75	18.72
215	8	332.00	0.20			0.00			0.00			0.00	4	279.81	257.13	84.28
216	37	1167.13	0.69	2	12.63	1.08			0.00	2	12.63	1.08	10	517.88	517.88	44.37
217	124	25570.88	15.17	37	1391.25	5.44	3	41.00	0.16	44	1398.81	5.47	57	1626.50	1626.50	6.36
218	49	4194.00	2.49	5	31.31	0.75			0.00	5	31.31	0.75	7	241.56	241.56	5.76
219	29	1619.88	0.96	22	202.94	12.53			0.00	22	202.94	12.53	32	1239.50	1229.38	76.52
220	12	3204.56	1.90			0.00			0.00			0.00	6	3127.75	3105.63	97.60
221	19	1517.31	0.90	15	415.69	27.40			0.00	15	415.69	27.40	30	1392.31	1392.31	91.76
222	3	1860.81	1.10	9	131.63	7.07			0.00	9	131.63	7.07	4	1860.94	1828.19	100.00
223	1	26.63	0.02	1	3.13	11.74			0.00	1	3.13	11.74	1	3.13	3.13	11.74
224	2	23.38	0.01	1	7.94	33.96			0.00	1	7.94	33.96	1	7.94	7.94	33.96
225	1	4.75	0.00			0.00			0.00			0.00				0.00
226	18	3079.94	1.83	3	20.63	0.67			0.00	3	20.63	0.67	10	2020.50	2016.94	65.60
227	16	2086.25	1.24	7	170.38	8.17			0.00	7	170.38	8.17	13	1916.50	1883.25	91.86
228	2	5.75	0.00			0.00			0.00			0.00				0.00
230	5	2156.06	1.28	3	3.56	0.17			0.00	3	3.56	0.17	10	2155.88	2083.25	99.99
231	4	781.38	0.46			0.00			0.00			0.00	5	781.31	774.13	99.99
232	1	265.25	0.16			0.00			0.00			0.00	1	265.25	254.50	100.00
233	1	335.13	0.20	1	78.75	23.50			0.00	1	78.75	23.50	2	335.13	335.13	100.00
235	8	708.69	0.42	6	23.88	3.37			0.00	6	23.88	3.37	9	708.06	702.81	99.91
236	1	63.44	0.04			0.00			0.00			0.00	1	63.44	55.25	100.00
237	1	0.06	0.00	1	0.06	100.00			0.00	1	0.06	100.00	2	0.13	0.13	100.00
238	5	106.94	0.06	2	29.13	27.24			0.00	2	29.13	27.24	8	106.88	106.75	99.94
243	5	667.81	0.40	1	2.38	0.36			0.00	1	2.38	0.36	5	665.31	646.75	99.63
244	3	273.38	0.16	1	0.06	0.02			0.00	1	0.06	0.02	3	273.31	269.75	99.98

System Integer	# patches in 2KA	Total area (ha) in 2KA	% of total area in 2KA	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Stream Systems continued																
246	3	87.50	0.05	3	9.31	10.64			0.00	3	9.31	10.64	6	87.81	86.94	100.00
247	16	681.06	0.40	6	55.94	8.21			0.00	6	55.94	8.21	24	290.25	264.75	42.62
248	1	0.13	0.00			0.00			0.00			0.00				0.00
249	2	24.06	0.01	1	0.06	0.26			0.00	1	0.06	0.26				0.00
250	8	1295.50	0.77	2	0.13	0.01			0.00	2	0.13	0.01	10	1230.44	848.13	94.98
251	11	695.31	0.41	2	15.63	2.25			0.00	2	15.63	2.25	10	681.88	673.88	98.07
253	27	6243.25	3.70	19	975.06	15.62			0.00	19	975.06	15.62	25	2146.81	2134.69	34.39
254	5	5611.44	3.33	1	70.69	1.26			0.00	1	70.69	1.26	10	5355.75	5061.50	95.44
Lake Systems																
317	1	266.13	0.16			0.00			0.00			0.00	1	266.13	266.13	100.00
325	12	2.06	0.00			0.00			0.00			0.00				0.00
326	120	916.13	0.54	32	229.69	25.07	1	7.38	0.81	33	237.06	25.88	57	357.56	357.56	39.03
327	2	12.19	0.01			0.00			0.00			0.00				0.00
328	14	6.50	0.00	2	0.31	4.81			0.00	2	0.31	4.81	3	0.31	0.31	4.81
329	19	24.56	0.01	5	10.44	42.49			0.00	5	10.44	42.49	6	10.44	10.44	42.49
330	84	610.81	0.36	18	51.00	8.35			0.00	18	51.00	8.35	33	395.31	395.31	64.72
331	133	148.31	0.09	31	29.38	19.81	6	1.56	1.05	32	29.63	19.97	33	29.63	29.63	19.97
332	5	24.19	0.01	2	23.25	96.12			0.00	2	23.25	96.12	3	23.25	23.25	96.12
333	521	2745.25	1.63	84	745.06	27.14	11	39.44	1.44	86	749.44	27.30	135	749.44	749.44	27.30
334	32	38.06	0.02	7	15.00	39.41	1	0.38	0.99	7	15.00	39.41	7	15.00	15.00	39.41
335	91	253.25	0.15	34	40.94	16.16			0.00	34	40.94	16.16	36	40.94	40.94	16.16
336	507	822.63	0.49	78	120.13	14.60	5	1.00	0.12	78	120.13	14.60	87	120.13	120.13	14.60
Wetland Systems																
401	53	116.75	0.07			0.00			0.00			0.00	8	13.38	13.38	11.46
402	49	271.00	0.16			0.00			0.00			0.00	8	25.13	25.13	9.27
405	38	124.75	0.07			0.00			0.00			0.00	8	18.69	18.69	14.98
406	34	315.63	0.19			0.00			0.00			0.00	9	75.88	75.88	24.04
407	3	13.69	0.01			0.00			0.00			0.00				0.00
408	4	34.75	0.02			0.00			0.00			0.00				0.00

System Integer	# patches in 2KA	Total area (ha) in 2KA	% of total area in 2KA	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Wetland Systems continued																
409	275	730.81	0.43	53	127.38	17.43	3	12.75	1.74	57	140.31	19.20	61	141.19	141.19	19.32
410	324	1778.31	1.05	75	498.88	28.05	4	5.25	0.30	75	498.88	28.05	78	499.81	499.81	28.11
Non-Target Ecological Systems																
Wetland Systems																
411	682	1013.69	0.60	144	200.25	19.75	4	10.88	1.07	147	204.13	20.14	174	204.13	204.13	20.14
412	1572	7516.06	4.46	285	1035.56	13.78	12	38.63	0.51	288	1049.19	13.96	363	1049.19	1049.19	13.96
Unclassified Ecological Systems																
2	14	1872.31	1.11			0.00			0.00			0.00				0.00
3	2	1.31	0.00	1	0.06	4.76			0.00	1	0.06	4.76	1	0.06	0.06	4.76
5	190	188.88	0.11	129	128.25	67.90			0.00	129	128.25	67.90	135	128.19	128.19	67.87
6	327	375.00	0.22	82	17.44	4.65	1	0.06	0.02	84	17.69	4.72	108	17.69	17.69	4.72

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Deep

Tertiary Watershed 2KB

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area: 417,641 hectares (1,031,990 acres)

Land Ownership: Crown Land ~ 90%
Private Land ~ 10%

Planning Authority: 91% Nipissing District
9% Renfrew County

General Description:

Tertiary watershed 2KB drains into the Ottawa River. There are approximately 354,457 hectares of stream systems, 34,225 hectares of lakes and 27,897 hectares of wetlands. Many lakes are present in this watershed, including Lake LaVieille, Cedar Lake, Radiant Lake, Lake Travers and Grand Lake. The Barron River, Petawawa River and Barron Canyon are also found in this watershed. Mixed forest is the dominant vegetation type, followed closely by dense deciduous forest. Small amounts of sparse coniferous and deciduous forest are present. Most of the wetlands are treed bogs.

Land Use:

Developed lands are primarily concentrated around Petawawa which is the most populated area within the watershed. The settlements of Black Bay and Brent are also found within its boundaries. Small cutovers are scattered throughout.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2KB is 367,267 hectares, constituting approximately 87.9% of the watershed's total area. The majority of these lands (366,742 ha) are located



in provincially protected areas, primarily in Algonquin Provincial Park. There are approximately 309,828 hectares of protected stream systems, 32,316 hectares of protected lakes and 24,170 hectares of protected wetlands.

Species and Vegetation Community Targets:

Ram's-head Lady's-slipper (*Cypripedium arietinum*), Extra-striped Snaketail (*Ophiogomphus anomalus*) and Ebony Boghaunter (*Williamsonia fletcheri*) are the primary targets in this watershed. The secondary targets are Wood Turtle (*Glyptemys insculpta*) and Northern Map Turtle (*Graptemys geographica*). Each of these species, except for Northern Map Turtle, is known from protected areas. There are no documented rare vegetation communities in this watershed.

Conservation Blueprint:

The Conservation Blueprint includes 319,180 hectares of stream systems, 32,452 hectares of lakes and 24,298 hectares of wetlands. The Conservation Blueprint also includes all of the known occurrences for Ram's-head Lady's-slipper (2), Extra-striped Snaketail (3) and Ebony Boghaunter (3).

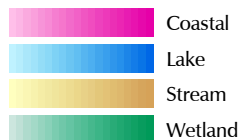
Great Lakes Conservation Blueprint for Biodiversity

DEEP WATERSHED 2KB

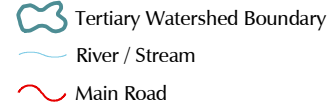
5 0 5 10 15 20 km



Aquatic Ecological Systems



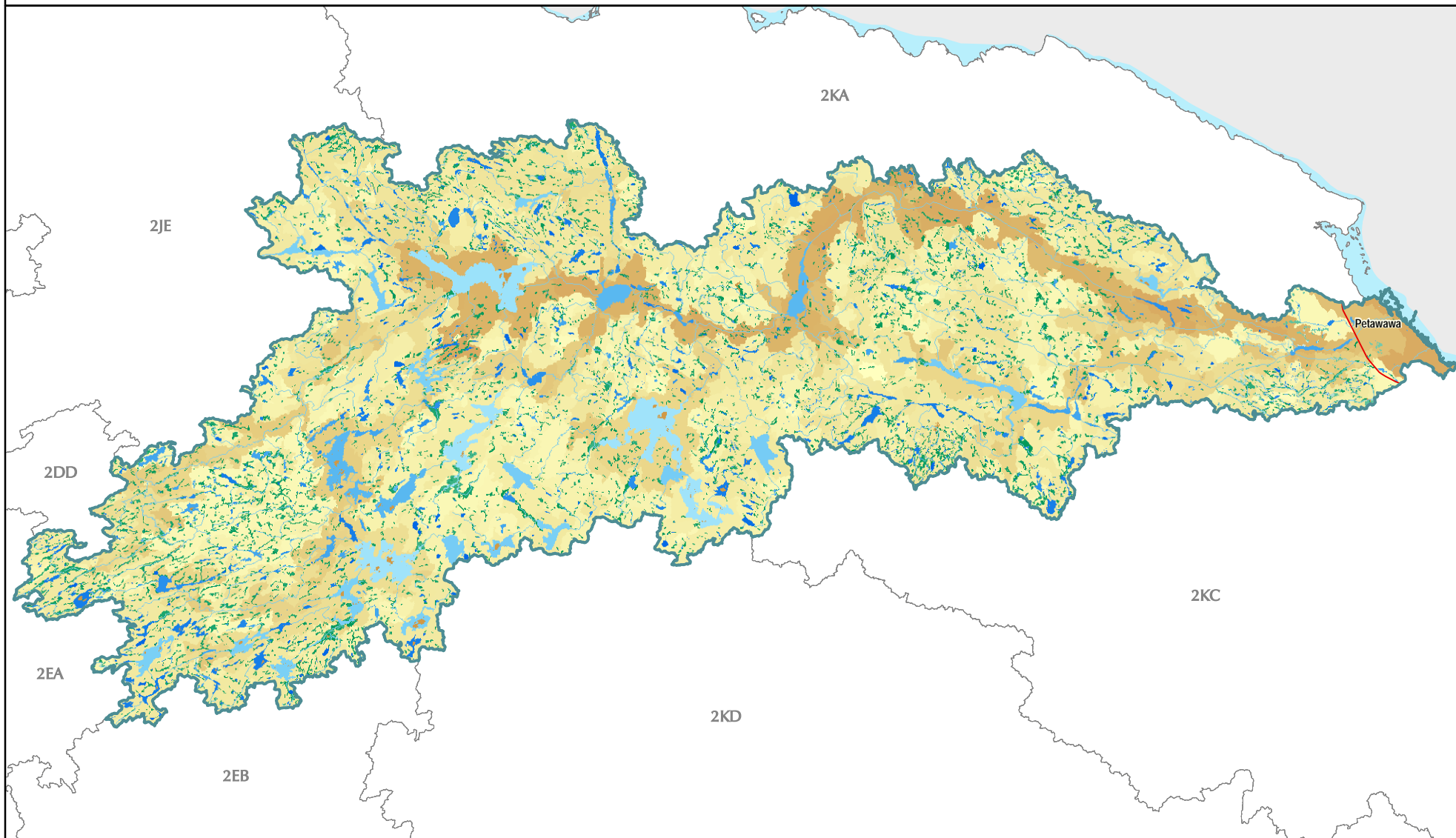
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

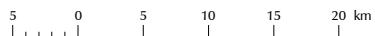
For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

DEEP WATERSHED 2KB



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

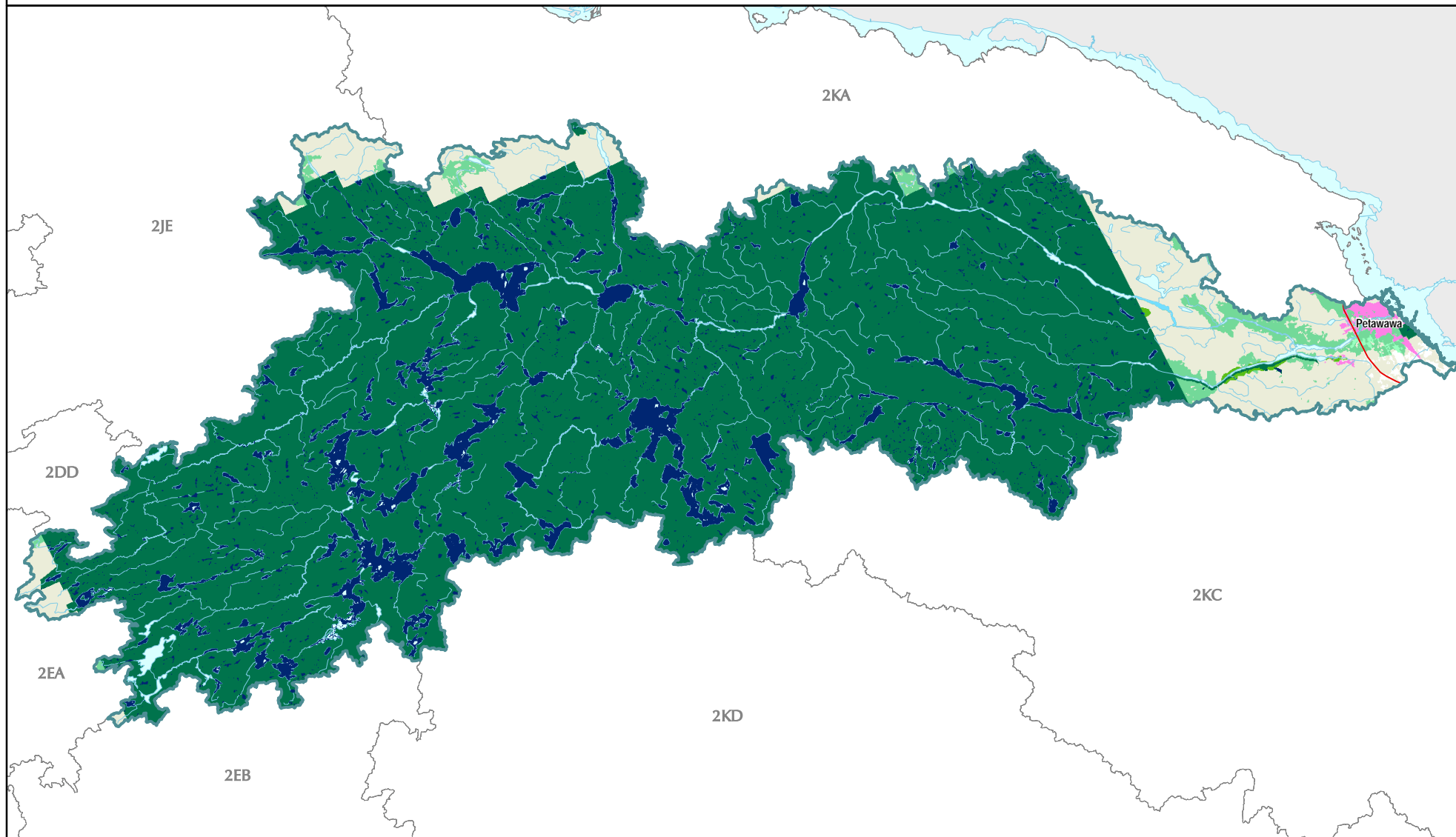
- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



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Documented extant significant species information for tertiary watershed 2KB

# of pops in 2KB	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in Parks and PAs	% of pops in Parks and PAs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species														
9	<i>Glyptemys insculpta</i>	Wood Turtle	G4	S2	SC	VUL	SAR	8	89	8	89	9	100	secondary
1	<i>Graptemys geographica</i>	Northern Map Turtle	G5	S3	SC	SC	SAR	0	0	0	0	0	0	secondary
3	<i>Ophiogomphus anomalus</i>	Extra-striped Snaketail	G3	S2			GRank	2	67	2	67	3	100	4
3	<i>Williamsonia fletcheri</i>	Ebony Boghaunter	G3G4	S2			GRank	3	100	3	100	3	100	2
2	<i>Cypripedium arietinum</i>	Ram's-head Lady's-slipper	G3	S3			GRank	2	100	2	100	2	100	2

Ecological systems summary for tertiary watershed 2KB

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stream Systems	354457.38	84.87	309828.63	87.41	319180.31	90.05	317992.06	89.71
Lake Systems	34225.56	8.19	32316.63	94.42	32452.38	94.82	32452.38	94.82
Wetland Systems	27897.25	6.68	24170.81	86.64	24298.25	87.10	24298.25	87.10
Tertiary watershed	417641.94	100.00	367267.00	87.94	376882.00	90.24	375693.75	89.96

Ecological systems details for tertiary watershed 2KB

System Integer	# of patches in 2KB	Total area (ha) in 2KB	% of total area in 2KB	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																
Stream Systems																
201	49	1393.56	0.33	41	1259.25	90.36			0.00	41	1259.25	90.36	61	1259.19	1259.19	90.36
202	27	506.25	0.12	26	396.69	78.36			0.00	26	396.69	78.36	28	396.69	396.69	78.36
203	294	20791.75	4.98	237	17608.13	84.69			0.00	237	17608.13	84.69	305	17607.44	17607.44	84.68
204	57	4214.88	1.01	55	3992.19	94.72			0.00	55	3992.19	94.72	82	4086.19	4086.19	96.95
205	169	10161.75	2.43	144	9141.50	89.96			0.00	144	9141.50	89.96	181	9141.44	9141.44	89.96
206	113	14796.31	3.54	105	14591.13	98.61			0.00	105	14591.13	98.61	145	14683.06	14683.06	99.23
207	31	2761.13	0.66	31	2761.13	100.00			0.00	31	2761.13	100.00	40	2761.31	2761.31	100.00

System Integer	# of patches in 2KB	Total area (ha) in 2KB	% of total area in 2KB	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Stream Systems continued																
208	362	29957.50	7.17	317	28571.13	95.37			0.00	317	28571.13	95.37	445	28571.88	28571.88	95.37
209	169	9816.81	2.35	136	8317.94	84.73	2	0.13	0.00	136	8317.94	84.73	184	8411.81	8411.81	85.69
210	182	19867.88	4.76	146	19195.31	96.61	7	0.44	0.00	146	19195.31	96.61	198	19195.19	19195.19	96.61
211	299	20179.00	4.83	206	19472.69	96.50			0.00	206	19472.69	96.50	291	19472.38	19472.38	96.50
212	91	5651.38	1.35	67	4669.81	82.63			0.00	67	4669.81	82.63	82	5350.31	5350.31	94.67
213	645	45069.44	10.79	503	39108.25	86.77	5	19.50	0.04	506	39110.31	86.78	773	39206.19	39206.19	86.99
214	341	20782.88	4.98	274	17452.06	83.97	4	83.75	0.40	274	17453.19	83.98	370	17472.50	17472.50	84.07
215	24	806.06	0.19	23	756.13	93.80			0.00	23	756.13	93.80	31	756.13	756.13	93.80
216	61	4931.44	1.18	56	4237.50	85.93			0.00	56	4237.50	85.93	90	4490.38	4490.38	91.06
217	264	23676.13	5.67	205	15758.06	66.56	2	6.25	0.03	205	15758.06	66.56	298	15758.13	15758.13	66.56
218	51	5230.88	1.25	43	4220.31	80.68			0.00	43	4220.31	80.68	55	4654.25	4654.25	88.98
219	18	2897.63	0.69	18	2887.38	99.65			0.00	18	2887.38	99.65	28	2887.38	2887.38	99.65
220	20	3202.19	0.77	20	3104.56	96.95			0.00	20	3104.56	96.95	24	3104.63	3104.63	96.95
221	137	20656.19	4.95	134	18491.38	89.52	3	296.44	1.44	132	18710.63	90.58	217	19095.38	19095.38	92.44
222	12	1190.06	0.28	11	913.31	76.74	1	134.94	11.34	11	989.25	83.13	21	1189.94	1189.94	99.99
224	7	1024.81	0.25	7	861.44	84.06			0.00	7	861.44	84.06	12	861.44	861.44	84.06
225	18	2498.50	0.60	18	1642.31	65.73			0.00	18	1642.31	65.73	22	2322.31	2322.31	92.95
226	141	17507.56	4.19	141	17135.63	97.88	1	181.88	1.04	141	17231.69	98.42	219	17231.75	17231.75	98.42
227	37	5588.31	1.34	34	5508.13	98.57			0.00	34	5508.13	98.57	45	5508.13	5508.13	98.57
228	11	304.56	0.07	11	304.56	100.00			0.00	11	304.56	100.00	13	304.56	304.56	100.00
229	4	871.38	0.21	4	871.38	100.00			0.00	4	871.38	100.00	4	871.50	871.50	100.00
230	4	843.31	0.20	4	843.31	100.00			0.00	4	843.31	100.00	6	843.38	843.38	100.00
231	60	7539.56	1.81	55	6801.25	90.21			0.00	58	6848.69	90.84	93	6848.81	6848.81	90.84
232	1	14.19	0.00	1	14.19	100.00			0.00	1	14.19	100.00	1	14.19	14.19	100.00
233	38	5489.69	1.31	35	4901.81	89.29	1	1.38	0.03	36	4903.19	89.32	54	4903.25	4903.25	89.32
234	9	487.13	0.12	9	432.00	88.68			0.00	9	432.00	88.68	12	448.19	448.19	92.01
235	36	3075.19	0.74	33	2667.69	86.75			0.00	33	2667.69	86.75	42	2667.69	2667.69	86.75
236	8	217.19	0.05	8	217.19	100.00			0.00	8	217.19	100.00	9	217.19	217.19	100.00
237	1	272.19	0.07	1	179.63	65.99			0.00	1	179.63	65.99	1	272.13	272.13	99.98
238	6	4191.44	1.00	4	1477.25	35.24	3	11.38	0.27	5	1477.63	35.25	5	4111.44	2936.44	98.09
239	1	1.44	0.00	1	1.44	100.00			0.00	1	1.44	100.00	4	1.44	1.44	100.00
240	2	125.38	0.03	2	125.38	100.00			0.00	2	125.38	100.00	2	125.38	125.38	100.00
241	8	1854.63	0.44	7	987.00	53.22			0.00	7	987.00	53.22	6	1619.69	1606.44	87.33
242	4	255.50	0.06	4	255.50	100.00			0.00	4	255.50	100.00	4	255.50	255.50	100.00

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Target Ecological Systems continued																
Stream Systems continued																
243	6	724.63	0.17	6	724.63	100.00			0.00	6	724.63	100.00	11	724.63	724.63	100.00
244	42	6945.50	1.66	37	6493.63	93.49	1	55.38	0.80	37	6549.00	94.29	54	6549.06	6549.06	94.29
246	1	48.13	0.01			0.00			0.00			0.00				0.00
247	55	13537.63	3.24	48	11375.63	84.03			0.00	48	11375.63	84.03	86	13440.19	13440.19	99.28
248	16	2167.56	0.52	15	2116.19	97.63			0.00	15	2116.19	97.63	21	2116.19	2116.19	97.63
249	6	862.88	0.21	6	862.88	100.00			0.00	6	862.88	100.00	9	862.94	862.94	100.00
250	47	8373.69	2.00	32	4945.25	59.06	2	182.06	2.17	32	4946.88	59.08	51	5417.88	5417.88	64.70
251	2	537.56	0.13	3	124.69	23.19			0.00	3	124.69	23.19	7	537.63	537.63	100.00
Lake Systems																
306	19	6080.63	1.46	19	6080.63	100.00			0.00	19	6080.63	100.00	50	6080.63	6080.63	100.00
309	4	2535.44	0.61	4	2535.44	100.00			0.00	4	2535.44	100.00	8	2535.44	2535.44	100.00
315	92	3766.13	0.90	91	3493.25	92.75			0.00	91	3493.25	92.75	117	3493.25	3493.25	92.75
317	10	3416.50	0.82	10	3416.50	100.00			0.00	10	3416.50	100.00	16	3416.50	3416.50	100.00
322	6	3158.81	0.76	6	3158.81	100.00			0.00	6	3158.81	100.00	14	3158.81	3158.81	100.00
325	22	23.50	0.01	17	16.38	69.68	1	0.88	3.72	17	16.38	69.68	25	16.38	16.38	69.68
326	492	3412.69	0.82	422	3105.06	90.99	1	2.63	0.08	422	3105.06	90.99	661	3105.06	3105.06	90.99
327	20	38.13	0.01	19	34.06	89.34			0.00	19	34.06	89.34	29	34.06	34.06	89.34
328	54	28.88	0.01	44	21.94	75.97	2	2.88	9.96	44	24.00	83.12	50	24.00	24.00	83.12
329	80	50.56	0.01	54	29.19	57.73			0.00	54	29.19	57.73	75	29.56	29.56	58.47
330	376	2134.06	0.51	320	1906.19	89.32			0.00	320	1906.19	89.32	494	2036.81	2036.81	95.44
331	494	1049.44	0.25	441	971.25	92.55			0.00	442	971.31	92.56	478	971.31	971.31	92.56
332	35	10.50	0.00	33	6.75	64.29			0.00	33	6.75	64.29	34	6.75	6.75	64.29
333	1312	6031.63	1.44	1053	5276.38	87.48	1	0.13	0.00	1053	5276.38	87.48	1628	5279.13	5279.13	87.52
334	97	44.69	0.01	73	38.19	85.45	1	0.19	0.42	73	38.19	85.45	81	38.19	38.19	85.45
335	349	656.75	0.16	312	622.88	94.84			0.00	312	622.88	94.84	338	622.88	622.88	94.84
336	1044	1786.38	0.43	884	1601.63	89.66	4	1.19	0.07	884	1601.63	89.66	978	1603.63	1603.63	89.77
Wetland Systems																
401	57	117.94	0.03	1	0.50	0.42	2	4.44	3.76	5	5.13	4.35	10	15.00	15.00	12.72
402	96	444.81	0.11	3	9.63	2.16	5	13.50	3.03	6	17.69	3.98	13	33.00	33.00	7.42
405	65	193.38	0.05	9	13.31	6.88	4	12.00	6.21	11	15.38	7.95	17	26.63	26.63	13.77
406	77	418.94	0.10	4	12.06	2.88	2	8.00	1.91	9	17.31	4.13	16	108.06	108.06	25.79
407	15	79.94	0.02	15	79.94	100.00			0.00	15	79.94	100.00	17	79.94	79.94	100.00
408	21	344.19	0.08	21	344.19	100.00			0.00	21	344.19	100.00	22	344.19	344.19	100.00
409	681	1531.75	0.37	580	1313.38	85.74	2	2.50	0.16	581	1313.63	85.76	617	1313.56	1313.56	85.76

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Target Ecological Systems continued																
Wetland Systems continued																
410	1314	5964.06	1.43	1178	5347.00	89.65	2	40.88	0.69	1179	5347.13	89.66	1261	5347.19	5347.19	89.66
Non-Target Ecological Systems																
Wetland Systems																
411	2178	3235.81	0.77	1977	2947.50	91.09	7	3.94	0.12	1977	2947.50	91.09	2301	2947.56	2947.56	91.09
412	4264	15566.44	3.73	3850	14081.88	90.46	6	9.88	0.06	3849	14082.94	90.47	4630	14083.13	14083.13	90.47
Unclassified Ecological Systems																
2	14	556.81	0.13	11	552.25	99.18			0.00	11	552.25	99.18	13	552.13	552.13	99.16
3	2	0.88	0.00			0.00			0.00			0.00				0.00
5	62	37.63	0.01	1	0.06	0.17	5	0.31	0.83	5	0.31	0.83	5	0.31	0.31	0.83
6	1349	1024.13	0.25	1183	950.63	92.82			0.00	1183	950.63	92.82	1445	950.75	950.75	92.84

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Bonnechere

Tertiary Watershed 2KC

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area: 420,814 hectares (1,039,831 acres)

Land Ownership: Crown Land ~ 25%
Private Land ~ 74%
First Nations Lands ~ 1%

Planning Authority: 86% Renfrew County
14% Nipissing District

General Description:

Tertiary watershed 2KC drains into the Ottawa River. There are approximately 370,252 hectares of stream systems, 21,580 hectares of lakes and 28,105 hectares of wetlands. This watershed generally follows the Bonnechere River in Algonquin Provincial Park to its outflow into the Ottawa River. There are many lakes in the watershed, including Round Lake and Golden Lake. Mixed and dense deciduous forest types comprise the dominant land cover. Dense coniferous forest, sparse coniferous forest and sparse deciduous forest are also scattered throughout the watershed. Wetland types include marsh, deciduous swamp, open fen and treed bog. A patch of treed fen occurs north of the town of Cormac.

Land Use:

Human activity is limited to a few areas of agriculture in the eastern portion of the watershed, a few patches of developed land, and forestry.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2KC is 64,547 hectares, constituting approximately 15% of the watershed's total area. The majority of these lands (57,433 ha) are located in provincially protected areas. Approximately 4,662 hectares are provincially



significant life science ANSIs, of which 293 hectares coincide with provincial parks and 280 hectares coincide with conservation reserves. There are approximately 51,967 hectares of protected stream systems, 3,241 hectares of protected lakes and 9,109 hectares of protected wetlands.

Species and Vegetation Community Targets:

Ram's-head Lady's-slipper (*Cypripedium arietinum*) is the only primary species target in the watershed. The secondary targets are Spiny Softshell (*Apalone spinifera*), Black Tern (*Chlidonias niger*), Wood Turtle (*Glyptemys insculpta*), Northern Map Turtle (*Graptemys geographica*), Least Bittern (*Ixobrychus exilis*) and Stinkpot (*Sternotherus odoratus*). Black Tern, Wood Turtle, Northern Map Turtle and Least Bittern are known to occur in conservation lands. There are no documented rare vegetation communities in this watershed.

Conservation Blueprint:

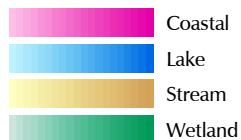
The Conservation Blueprint includes 76,449 hectares of stream systems, 15,961 hectares of lakes and 9,635 hectares of wetlands. The Conservation Blueprint also includes the only occurrence of Ram's-head Lady's-slipper.

Great Lakes Conservation Blueprint for Biodiversity

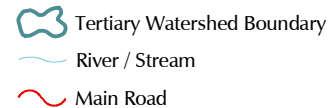
BONNECHERE WATERSHED 2KC



Aquatic Ecological Systems



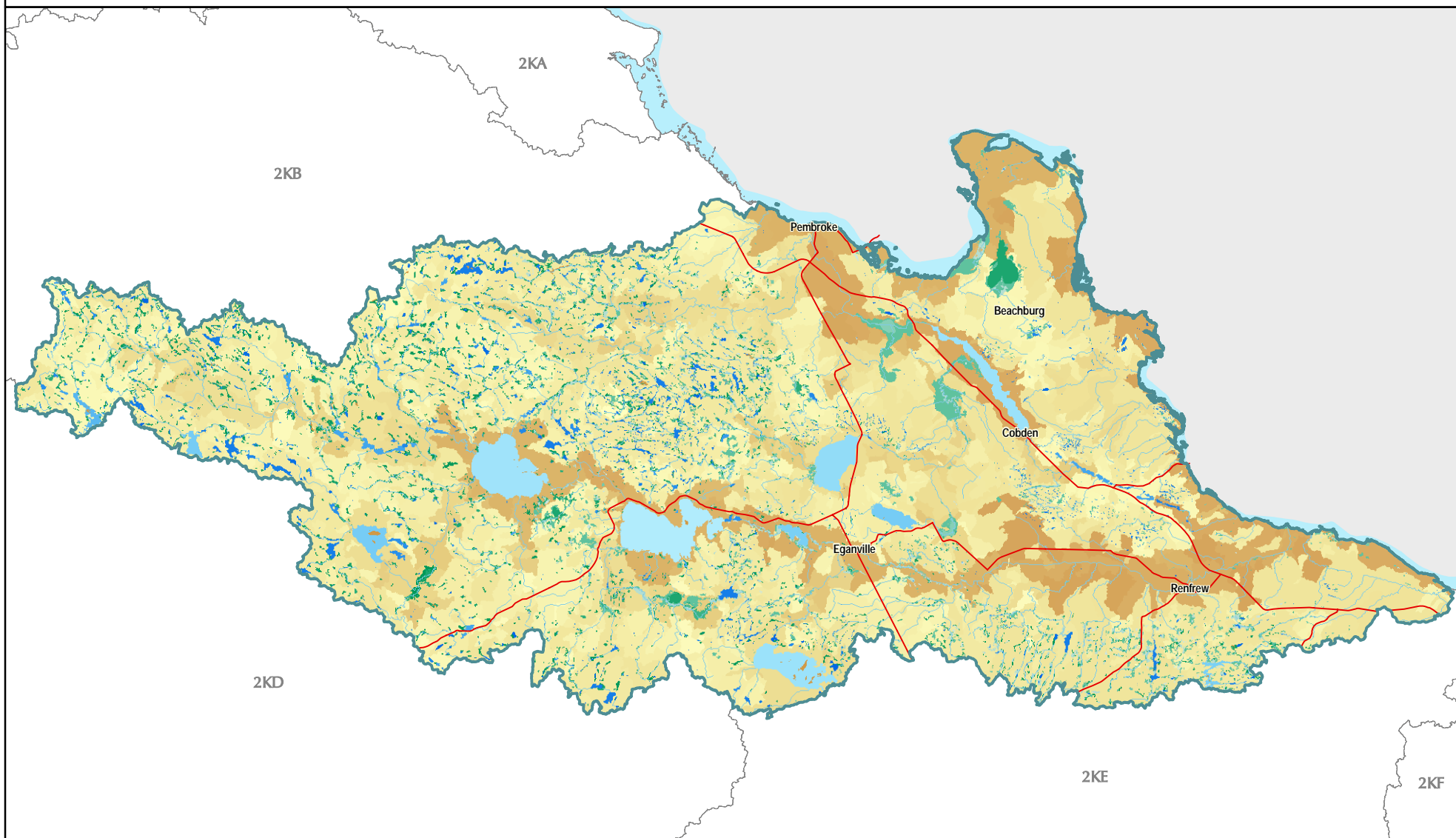
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

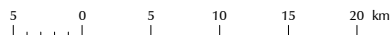
For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

BONNECHERE WATERSHED 2KC



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

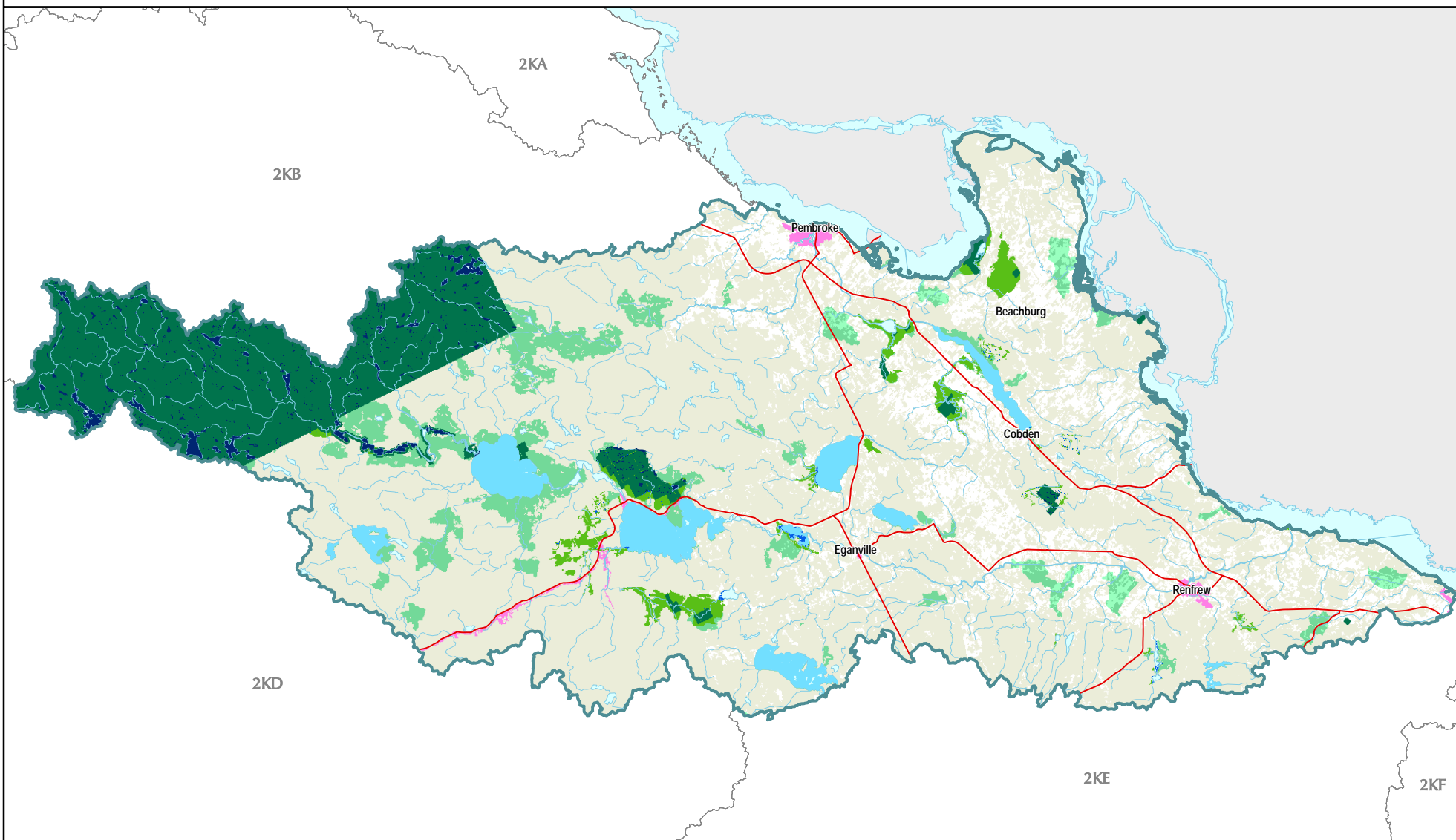
- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Documented extant significant species information for tertiary watershed 2KC

# pops in 2KC	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in Parks and PAs	% of pops in Parks and PAs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species														
1	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	0	1	100	1	100	secondary
1	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	0	1	100	1	100	secondary
5	<i>Glyptemys insculpta</i>	Wood Turtle	G4	S2	SC	END	SAR	2	40	2	40	2	40	secondary
8	<i>Graptemys geographica</i>	Northern Map Turtle	G5	S3	SC	SC	SAR	3	38	3	38	4	50	secondary
1	<i>Sternotherus odoratus</i>	Stinkpot	G5	S3	THR	THR	SAR	0	0	0	0	0	0	secondary
1	<i>Apalone spinifera</i>	Spiny Softshell	G5	S3	THR	THR	SAR	0	0	0	0	0	0	secondary
1	<i>Cypripedium arietinum</i>	Ram's-head Lady's-slipper	G3	S3			GRank	0	0	0	0	1	100	2

Ecological systems summary for tertiary watershed 2KC

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stream Systems	370252.75	87.98	51967.00	14.04	76449.44	20.65	73956.69	19.97
Lake Systems	21580.13	5.13	3241.94	15.02	15961.19	73.96	15961.19	73.96
Wetland Systems	28105.63	6.68	9109.63	32.41	9635.81	34.28	9635.81	34.28
Tertiary watershed	420814.38	100.00	64547.44	15.34	102275.31	24.30	99782.56	23.71

Ecological systems details for tertiary watershed 2KC

System Integer	# of patches in 2KC	Total area (ha) in 2KC	% of total area in 2KC	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																
Stream Systems																
201	31	1210.13	0.29	14	606.56	50.12	1	68.31	5.65	26	609.75	50.39	32	609.75	609.75	50.39
202	40	3008.06	0.71	20	1391.63	46.26	2	10.63	0.35	22	1406.50	46.76	30	1406.50	1406.50	46.76
203	216	14306.13	3.40	78	3968.19	27.74	4	36.94	0.26	93	3983.50	27.84	148	5062.69	5062.69	35.39
204	90	3922.00	0.93	40	1323.06	33.73	2	68.19	1.74	40	1326.63	33.83	67	1760.44	1756.00	44.89
205	162	5263.69	1.25	65	1008.13	19.15	3	16.56	0.31	130	1112.50	21.14	165	1192.94	1192.94	22.66

System Integer	# of patches in 2KC	Total area (ha) in 2KC	% of total area in 2KC	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Stream Systems continued																
206	201	19494.81	4.63	51	2017.44	10.35	5	14.50	0.07	79	2253.56	11.56	107	3508.44	3449.00	18.00
207	95	8853.44	2.10	55	3089.56	34.90	4	18.81	0.21	60	3112.44	35.16	90	3112.38	3112.38	35.15
208	358	16167.13	3.84	157	7705.50	47.66			0.00	192	7719.13	47.75	265	7723.88	7723.88	47.78
209	224	10541.75	2.51	66	3127.13	29.66	13	817.38	7.75	81	3236.44	30.70	108	3590.19	3590.19	34.06
210	210	28990.69	6.89	58	1813.06	6.25	10	50.81	0.18	78	1885.56	6.50	94	1885.63	1885.63	6.50
211	164	5403.94	1.28	59	1698.38	31.43			0.00	61	1698.56	31.43	78	1698.50	1698.50	31.43
212	126	13075.94	3.11	22	2056.38	15.73	4	278.69	2.13	22	2181.38	16.68	39	2181.63	2181.63	16.68
213	643	41624.81	9.89	186	4183.38	10.05	15	393.31	0.94	363	4249.88	10.21	466	4249.31	4249.31	10.21
214	364	12211.31	2.90	101	1300.44	10.65	6	72.19	0.59	141	1319.81	10.81	165	1319.94	1319.94	10.81
215	68	5470.13	1.30	16	1004.44	18.36			0.00	64	1307.88	23.91	99	1532.38	1529.88	28.01
216	112	5215.44	1.24	55	2619.44	50.22	1	7.06	0.14	64	2641.31	50.64	84	2641.31	2641.31	50.64
217	297	51010.56	12.12	42	2573.38	5.04	12	71.69	0.14	91	2658.75	5.21	128	3233.75	2981.06	6.34
218	90	10958.81	2.60	25	678.38	6.19	2	5.63	0.05	60	689.88	6.30	64	1026.38	1021.13	9.37
219	30	5850.63	1.39	24	908.06	15.52	6	20.63	0.35	24	914.88	15.64	40	2300.88	2300.88	39.33
220	44	7500.63	1.78	19	2294.13	30.59			0.00	25	2294.63	30.59	44	3309.75	3309.75	44.13
221	131	11998.50	2.85	19	14.06	0.12	23	107.31	0.89	98	181.81	1.52	132	389.94	389.94	3.25
222	44	4392.31	1.04	57	605.81	13.79	10	88.31	2.01	66	701.69	15.98	84	1097.00	1097.00	24.98
223	7	326.88	0.08	2	273.63	83.71			0.00	2	273.63	83.71	3	292.13	292.13	89.37
224	40	4915.75	1.17	47	1305.81	26.56	5	46.00	0.94	62	1342.13	27.30	70	2060.75	2060.75	41.92
225	37	1848.44	0.44	15	292.56	15.83	1	13.69	0.74	13	301.94	16.33	39	1032.44	1032.44	55.85
226	62	6537.44	1.55	15	32.94	0.50	35	303.56	4.64	44	323.69	4.95	62	457.75	457.75	7.00
227	51	4289.44	1.02	3	93.38	2.18	5	14.63	0.34	24	110.75	2.58	40	1660.19	1659.31	38.70
228	10	254.44	0.06	1	65.94	25.92			0.00	1	65.94	25.92	4	190.00	175.06	74.67
229	6	426.38	0.10	3	398.06	93.36			0.00	3	398.06	93.36	6	403.50	403.50	94.64
230	27	1080.88	0.26	9	69.13	6.40			0.00	9	69.13	6.40	13	828.56	828.56	76.66
231	40	1987.81	0.47	11	63.00	3.17	17	338.63	17.04	22	410.38	20.64	28	587.13	584.88	29.54
232	1	32.63	0.01			0.00			0.00			0.00				0.00
233	29	2334.63	0.55	3	1.00	0.04	5	5.94	0.25	11	6.56	0.28	19	1603.44	1596.75	68.68
234	6	86.38	0.02	1	0.06	0.07			0.00	1	0.06	0.07	7	24.81	24.81	28.73
235	35	1585.63	0.38	5	29.63	1.87	3	34.31	2.16	10	71.56	4.51	15	506.19	500.13	31.92
236	4	4.31	0.00			0.00			0.00			0.00				0.00
238	10	369.25	0.09			0.00			0.00	12	6.50	1.76	5	259.50	257.44	70.28
240	6	219.88	0.05	1	2.00	0.91	2	16.56	7.53	2	16.56	7.53	3	217.38	178.38	98.86

System Integer	# of patches in 2KC	Total area (ha) in 2KC	% of total area in 2KC	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Stream Systems continued																
241	28	2209.44	0.53	6	54.06	2.45			0.00	25	58.13	2.63	30	714.94	714.94	32.36
242	10	134.44	0.03			0.00			0.00	6	0.88	0.65	5	61.19	61.00	45.51
243	9	656.81	0.16			0.00			0.00			0.00	3	441.38	187.13	67.20
244	38	5974.44	1.42	6	158.63	2.66	1	6.25	0.10	7	164.88	2.76	23	3102.00	3102.00	51.92
247	92	15218.38	3.62	20	357.19	2.35	3	287.44	1.89	73	533.56	3.51	77	1697.50	1661.06	11.15
248	34	7592.50	1.80			0.00			0.00	38	48.06	0.63	56	576.88	526.06	7.60
249	7	703.19	0.17	2	65.38	9.30	2	77.94	11.08	2	81.00	11.52	5	622.56	497.63	88.53
250	140	13872.75	3.30	6	132.56	0.96	4	105.38	0.76	107	196.75	1.42	102	830.31	803.13	5.99
251	10	1366.00	0.32			0.00			0.00			0.00	3	979.63	633.69	71.71
252	1	1.69	0.00			0.00			0.00			0.00				0.00
253	35	6875.94	1.63			0.00			0.00			0.00	4	46.25	46.25	0.67
254	4	2419.06	0.57			0.00			0.00			0.00	6	2419.06	1162.25	100.00
Lake Systems																
302	2	3552.63	0.84			0.00			0.00	1	5.31	0.15	5	3552.31	3552.31	99.99
306	1	2962.56	0.70	2	7.75	0.26			0.00	2	7.75	0.26	5	2962.56	2962.56	100.00
309	3	2947.19	0.70			0.00			0.00	6	0.38	0.01	9	2947.06	2947.06	100.00
311	1	1509.75	0.36			0.00			0.00	6	11.44	0.76	2	1509.75	1509.75	100.00
315	3	477.50	0.11			0.00			0.00	20	67.75	14.19	4	477.44	477.44	99.99
317	7	1502.31	0.36	3	243.94	16.24			0.00	3	243.94	16.24	13	1502.00	1502.00	99.98
322	5	278.94	0.07	5	278.94	100.00			0.00	5	278.94	100.00	8	278.94	278.94	100.00
325	25	15.19	0.00	3	0.69	4.53			0.00	3	0.69	4.53	5	0.69	0.69	4.53
326	545	1307.19	0.31	158	703.69	53.83	11	125.69	9.62	170	707.13	54.10	248	707.25	707.25	54.10
327	19	6.81	0.00	7	3.13	45.87			0.00	7	3.13	45.87	11	3.13	3.13	45.87
328	87	78.00	0.02	17	9.75	12.50			0.00	17	9.75	12.50	17	9.75	9.75	12.50
329	65	51.50	0.01	12	17.19	33.37	1	1.25	2.43	13	18.50	35.92	26	20.50	20.50	39.81
330	631	1061.50	0.25	218	362.31	34.13	3	28.56	2.69	221	371.75	35.02	324	371.75	371.75	35.02
331	591	537.88	0.13	133	194.13	36.09	10	4.69	0.87	142	195.69	36.38	155	195.69	195.69	36.38
332	37	11.06	0.00	12	3.31	29.94			0.00	12	3.31	29.94	12	3.31	3.31	29.94
333	2287	3744.31	0.89	336	915.56	24.45	51	68.75	1.84	418	980.81	26.19	612	1083.38	1083.38	28.93
334	110	42.81	0.01	13	2.94	6.86	4	0.81	1.90	14	3.00	7.01	15	3.00	3.00	7.01
335	590	464.13	0.11	176	141.63	30.51	1	1.25	0.27	178	143.31	30.88	194	143.31	143.31	30.88
336	1667	1024.13	0.24	235	186.81	18.24	46	19.06	1.86	254	189.38	18.49	278	189.38	189.38	18.49

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Target Ecological Systems continued																
Wetland Systems																
401	573	1064.69	0.25	19	19.00	1.78	7	5.00	0.47	69	72.88	6.84	83	74.38	74.38	6.99
402	934	4541.06	1.08	23	168.69	3.71	17	198.56	4.37	161	791.63	17.43	221	861.63	861.63	18.97
404	2	314.56	0.07	2	10.06	3.20			0.00	1	180.38	57.34	4	314.56	314.56	100.00
405	804	1682.88	0.40	13	45.88	2.73	12	31.00	1.84	86	129.94	7.72	100	164.25	164.25	9.76
406	1090	7505.81	1.78	24	475.81	6.34	18	306.50	4.08	134	2837.44	37.80	174	3116.25	3116.25	41.52
407	81	89.63	0.02	3	2.25	2.51	12	23.19	25.87	25	30.06	33.54	28	30.13	30.13	33.61
408	112	292.38	0.07	2	96.13	32.88	11	136.13	46.56	23	141.50	48.40	31	145.63	145.63	49.81
409	375	892.50	0.21	102	226.38	25.36	10	20.56	2.30	112	257.63	28.87	126	257.69	257.69	28.87
410	397	2488.81	0.59	151	673.50	27.06	11	120.38	4.84	162	1461.69	58.73	172	1464.94	1464.94	58.86
Non-Target Ecological Systems																
Wetland Systems																
411	1402	1522.81	0.36	315	394.31	25.89	34	23.75	1.56	354	420.88	27.64	405	420.81	420.81	27.63
412	2665	7710.50	1.83	661	2678.88	34.74	52	142.50	1.85	713	2785.63	36.13	859	2785.56	2785.56	36.13
Unclassified Ecological Systems																
2	12	457.19	0.11			0.00			0.00	4	0.44	0.10	5	0.44	0.44	0.10
3	26	4.75	0.00			0.00			0.00			0.00				0.00
5	297	382.38	0.09	33	50.19	13.13			0.00	34	50.25	13.14	41	50.25	50.25	13.14
6	953	493.50	0.12	270	139.63	28.29	30	7.00	1.42	301	178.63	36.20	363	178.63	178.63	36.20

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Upper Madawaska

Tertiary Watershed 2KD

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area:	622,116 hectares (1,537,248 acres)
Land Ownership:	Crown Land ~ 60%, Private Land ~ 40%
Planning Authority:	33% Nipissing District 31% Hastings County 16% Renfrew County 15% Haliburton County 5% Lennox and Addington County

General Description:

Tertiary watershed 2KD drains into the Ottawa River. There are approximately 536,369 hectares of stream systems, 48,437 hectares of lakes and 34,139 hectares of wetlands. The Madawaska and Opeongo Rivers are located in the watershed, as well as Opeongo Lake, Bark Lake, Carson Lake and Kamaniskeg Lake. Mixed forest and dense deciduous forest dominate the region. Small amounts of coniferous forest and sparse deciduous forest can also be found. Wetland types are primarily open fen and treed bog. There is also a patch of treed fen north of the town of Boulter.

Land Use:

There is very little converted land in the watershed. There are scattered crop fields, cutovers and small rural communities. Land uses include mining and forestry. Bancroft is the largest community in this sparsely populated, inland watershed. Smaller settlements include Harcourt, Lake St. Peter, Whitney, Barry's Bay, Madawaska and McArthur Mills.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2KD is 190,282 hectares, constituting approximately 30.6% of the



watershed's total area. The majority of these lands (185,066 hectares) are located in provincially protected areas. Approximately 6,490 hectares are provincially significant life science ANSIs of which 1,496 hectares coincide with provincial parks and 1,802 hectares coincide with conservation reserves. Algonquin Provincial Park is in the northern portion of the watershed. There are approximately 158,163 hectares of protected stream systems, 19,672 hectares of protected lakes and 11,487 hectares of protected wetlands.

Species and Vegetation Community Targets:

Wood Turtle (*Glyptemys insculpta*), Northern Map Turtle (*Gratemys geographica*) and Stinkpot (*Sternotherus odoratus*) are the secondary targets known from this watershed. There are no documented rare vegetation communities in this watershed.

Conservation Blueprint:

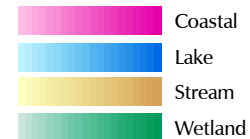
The Conservation Blueprint includes 196,135 hectares of stream systems, 27,219 hectares of lakes and 14,418 hectares of wetlands. The Conservation Blueprint also includes all of the occurrences of Wood Turtle.

Great Lakes Conservation Blueprint for Biodiversity

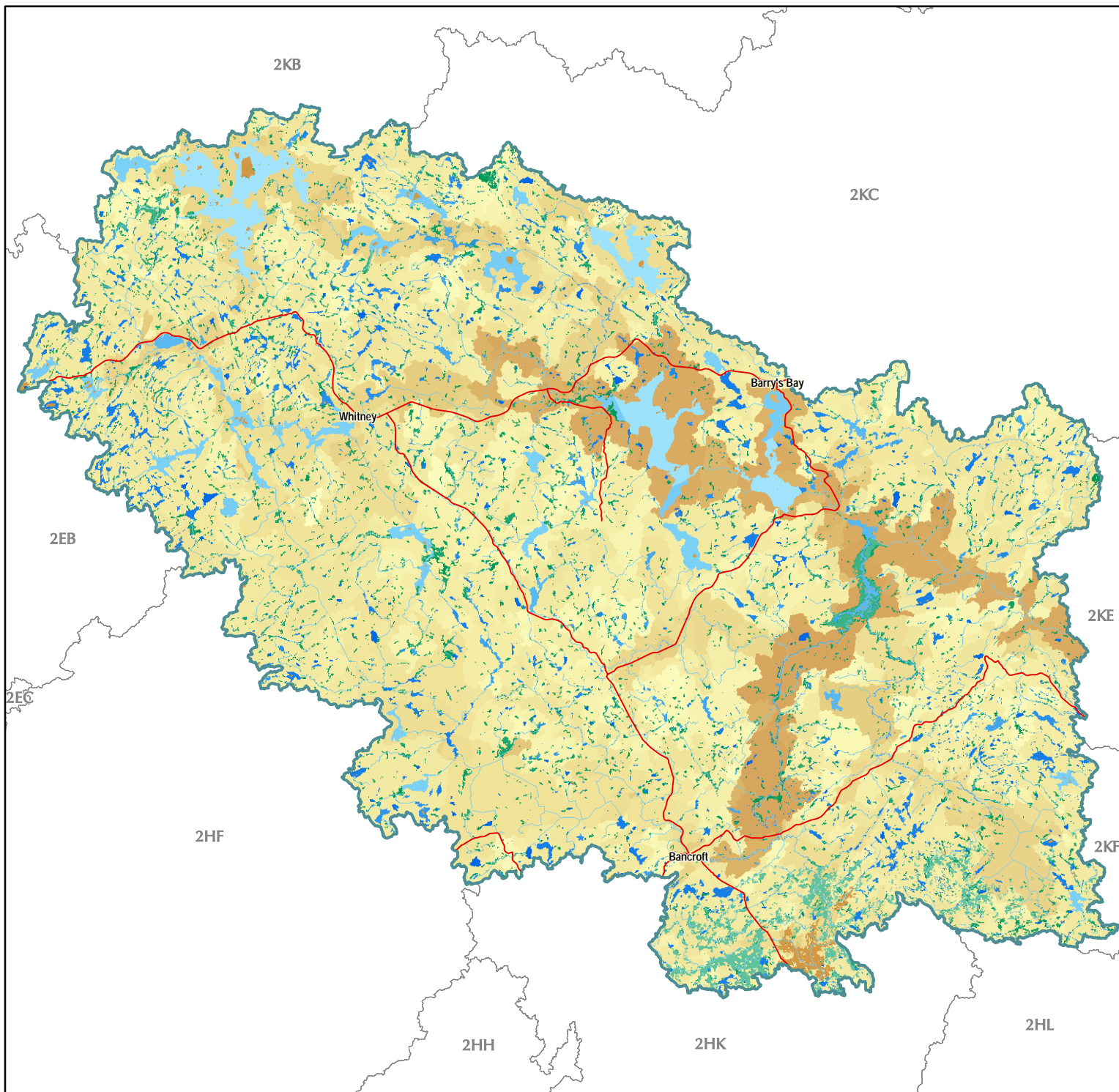
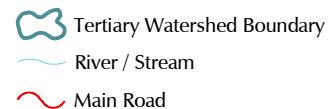
UPPER MADAWASKA WATERSHED 2KD



Aquatic Ecological Systems



Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

UPPER MADAWASKA WATERSHED 2KD



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

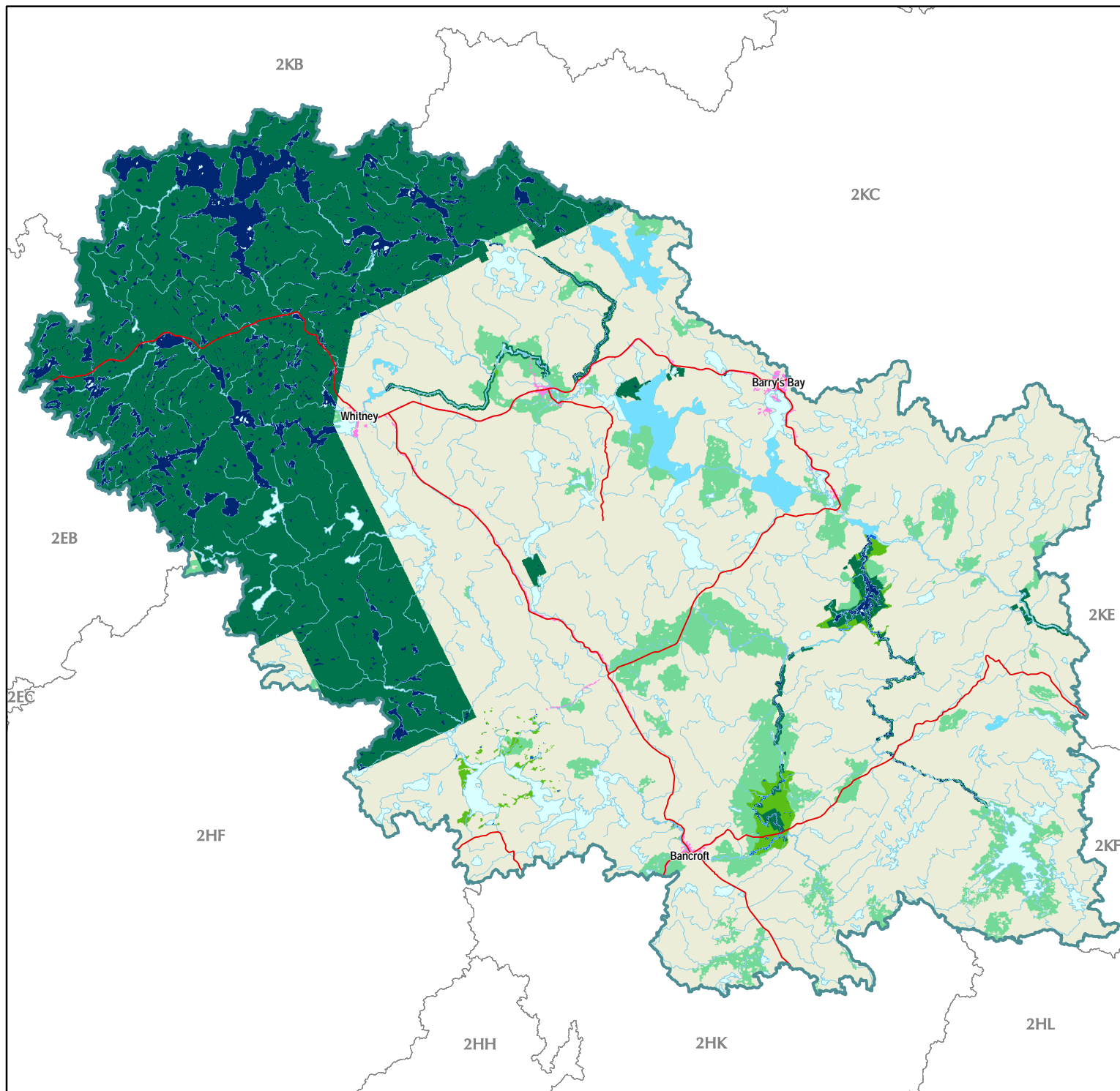
- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



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Documented extant significant species information for tertiary watershed 2KD

# pops in 2KD	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in Parks and PAs	% of pops in Parks and PAs	# of pops in PS LS-ANSIs	% of pops in PS LS-ANSIs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species																
3	Glyptemys insculpta	Wood Turtle	G4	S2	SC	END	SAR	3	100	2	67	3	100	3	100	secondary
1	Graptemys geographica	Northern Map Turtle	G5	S3	SC	SC	SAR	0	0	0	0	0	0	0	0	secondary
1	Sternotherus odoratus	Stinkpot	G5	S3	THR	THR	SAR	0	0	0	0	0	0	0	0	secondary

Ecological systems summary for tertiary watershed 2KD

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stream Systems	536369.50	86.22	158163.81	29.49	196135.94	36.57	195956.25	36.53
Lake Systems	48437.81	7.79	19672.19	40.61	27219.00	56.19	27219.00	56.19
Wetland Systems	34139.44	5.49	11487.81	33.65	14418.69	42.23	14418.69	42.23
Tertiary watershed	622116.00	100.00	190282.19	30.59	238733.13	38.37	238553.44	38.35

Ecological systems details for tertiary watershed 2KD

System Integer	# of patches in 2KD	Total area (ha) in 2KD	% of total area in 2KD	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																
Stream Systems																
201	48	3422.00	0.55	5	264.31	7.72			0.00	5	264.31	7.72	16	1253.31	1253.31	36.63
202	16	1323.38	0.21	4	58.25	4.40			0.00	4	58.25	4.40	8	797.50	797.50	60.26
203	224	8988.81	1.44	86	1772.44	19.72			0.00	93	1788.25	19.89	115	1790.75	1790.75	19.92
204	84	8228.13	1.32	24	1413.63	17.18			0.00	29	1429.38	17.37	64	2103.44	2069.44	25.56
205	148	7780.75	1.25	40	3548.31	45.60	3	125.88	1.62	50	3672.50	47.20	76	3673.31	3673.31	47.21
206	117	10119.63	1.63	29	1188.31	11.74			0.00	29	1188.31	11.74	39	1552.19	1552.19	15.34
207	110	10350.88	1.66	43	1784.75	17.24			0.00	43	1784.75	17.24	52	1957.31	1957.31	18.91
208	366	30919.56	4.97	166	9178.69	29.69	2	7.13	0.02	198	9198.25	29.75	247	9197.88	9197.88	29.75
209	310	23913.44	3.84	85	2651.25	11.09	2	4.75	0.02	101	2681.81	11.21	123	2682.81	2682.81	11.22

System Integer	# of patches in 2KD	Total area (ha) in 2KD	% of total area in 2KD	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Stream Systems continued																
210	196	27603.00	4.44	60	7482.25	27.11	6	12.94	0.05	76	7536.88	27.30	119	8387.88	8387.88	30.39
211	312	22494.50	3.62	161	5142.31	22.86	12	161.63	0.72	166	5238.19	23.29	217	5657.63	5657.63	25.15
212	177	19088.50	3.07	38	2442.13	12.79			0.00	45	2447.69	12.82	55	2540.00	2540.00	13.31
213	833	85895.31	13.81	257	33775.25	39.32	10	157.81	0.18	263	33795.06	39.34	399	33795.56	33795.56	39.35
214	434	44427.69	7.14	189	20129.81	45.31	1	32.63	0.07	194	20165.50	45.39	290	20347.19	20347.19	45.80
215	48	2371.13	0.38	5	290.38	12.25			0.00	7	291.13	12.28	10	538.75	530.69	22.72
216	91	11659.94	1.87	42	4496.88	38.57			0.00	42	4496.88	38.57	56	4496.81	4496.81	38.57
217	376	43937.44	7.06	79	11382.50	25.91	3	14.56	0.03	82	11392.50	25.93	114	11606.50	11606.50	26.42
218	155	17497.88	2.81	44	8076.13	46.15			0.00	44	8076.13	46.15	74	8827.75	8827.75	50.45
219	37	21551.06	3.46	17	5936.19	27.54			0.00	104	7306.75	33.90	177	7306.75	7306.75	33.90
220	17	1241.56	0.20	10	916.75	73.84			0.00	10	916.75	73.84	17	1036.63	1036.63	83.49
221	196	28458.25	4.57	116	7842.94	27.56	13	109.44	0.38	130	8025.81	28.20	241	8644.81	8644.81	30.38
222	8	2229.56	0.36	1	51.19	2.30			0.00	7	60.69	2.72	17	1604.25	1604.25	71.95
223	5	89.69	0.01	4	85.19	94.98			0.00	4	85.19	94.98	6	85.19	85.19	94.98
224	4	2923.88	0.47			0.00			0.00	2	0.38	0.01	5	2920.13	2920.13	99.87
225	18	2869.38	0.46	1	62.63	2.18			0.00	1	62.63	2.18	8	2719.69	2719.00	94.78
226	166	17931.88	2.88	88	14052.94	78.37			0.00	88	14052.94	78.37	142	14057.31	14057.31	78.39
227	74	14551.75	2.34	39	2882.56	19.81	10	676.88	4.65	29	2921.75	20.08	77	8838.81	8838.81	60.74
228	9	628.63	0.10	7	212.50	33.80	1	61.81	9.83	7	213.00	33.88	15	522.06	522.06	83.05
229	1	47.81	0.01			0.00			0.00			0.00				0.00
230	7	654.31	0.11	2	44.81	6.85			0.00	4	47.56	7.27	7	507.56	507.56	77.57
231	49	5298.38	0.85	34	1653.81	31.21	2	66.44	1.25	32	1710.38	32.28	58	1710.38	1710.38	32.28
232	1	36.19	0.01			0.00			0.00			0.00				0.00
233	27	4706.13	0.76	34	1926.94	40.95	2	47.31	1.01	34	1927.38	40.95	63	2085.19	2085.19	44.31
234	2	26.25	0.00	2	1.75	6.67			0.00	2	1.75	6.67	2	1.75	1.75	6.67
235	27	545.13	0.09	7	173.19	31.77			0.00	12	201.69	37.00	11	445.38	445.38	81.70
236	2	18.81	0.00	2	2.94	15.61			0.00	2	2.94	15.61	2	2.94	2.94	15.61
238	2	279.38	0.04	1	46.38	16.60	1	24.69	8.84	1	53.44	19.13	2	279.38	279.38	100.00
239	1	0.25	0.00	1	0.25	100.00			0.00	1	0.25	100.00	1	0.25	0.25	100.00
241	19	1111.13	0.18	5	22.69	2.04	2	0.25	0.02	6	22.88	2.06	10	878.56	874.31	79.07
242	1	15.38	0.00			0.00			0.00			0.00				0.00

System Integer	# of patches in 2KD	Total area (ha) in 2KD	% of total area in 2KD	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Stream Systems continued																
243	2	104.56	0.02	1	1.13	1.08			0.00	1	1.13	1.08	2	104.56	104.56	100.00
244	8	2216.75	0.36	3	15.38	0.69			0.00	3	15.38	0.69	7	2188.69	2188.69	98.73
245	2	277.31	0.04			0.00			0.00			0.00	3	277.19	277.19	99.95
246	4	1725.81	0.28	3	24.88	1.44	1	353.69	20.49	3	376.88	21.84	10	1725.75	1725.75	100.00
247	20	5781.00	0.93	8	178.00	3.08	3	175.75	3.04	8	209.63	3.63	9	3191.81	3095.31	55.21
248	11	2779.63	0.45	2	45.38	1.63	2	56.81	2.04	4	103.69	3.73	8	1147.63	1128.75	41.29
249	2	332.88	0.05	1	18.25	5.48	1	18.94	5.69	1	18.94	5.69	2	332.88	332.88	100.00
250	74	22555.19	3.63	21	1162.44	5.15	15	109.63	0.49	35	1277.06	5.66	47	3146.69	3131.06	13.95
251	5	781.69	0.13	1	16.63	2.13			0.00	1	16.63	2.13	5	781.56	779.88	99.98
252	159	12517.81	2.01	125	1081.44	8.64	151	1917.81	15.32	174	2451.63	19.59	221	6514.88	6514.88	52.04
253	8	990.13	0.16			0.00			0.00			0.00	5	870.63	870.63	87.93
254	9	601.75	0.10	8	90.25	15.00	1	48.19	8.01	7	104.94	17.44	11	532.06	532.06	88.42
Lake Systems																
306	8	7409.44	1.19	7	5899.56	79.62			0.00	7	5899.56	79.62	31	7409.44	7409.44	100.00
309	2	5303.06	0.85	2	0.25	0.00			0.00	2	0.25	0.00	7	5303.06	5303.06	100.00
315	38	7309.44	1.17	28	4019.44	54.99			0.00	28	4019.44	54.99	43	4019.38	4019.38	54.99
317	15	3688.25	0.59	8	1026.38	27.83			0.00	8	1026.38	27.83	17	1026.38	1026.38	27.83
322	18	1651.13	0.27	18	717.75	43.47	12	433.69	26.27	14	767.31	46.47	26	984.06	984.06	59.60
325	44	18.00	0.00	16	7.63	42.36	7	2.31	12.85	21	9.31	51.74	27	9.31	9.31	51.74
326	899	3588.63	0.58	236	1147.38	31.97	46	113.94	3.17	273	1202.31	33.50	534	1432.69	1432.69	39.92
327	33	22.44	0.00	14	10.38	46.24			0.00	14	10.38	46.24	18	10.63	10.63	47.35
328	100	55.94	0.01	28	10.88	19.44	2	0.38	0.67	32	11.56	20.67	36	12.75	12.75	22.79
329	171	539.69	0.09	47	72.94	13.51			0.00	47	72.94	13.51	61	72.94	72.94	13.51
330	655	2505.56	0.40	220	979.63	39.10	26	50.00	2.00	226	1009.50	40.29	404	1246.44	1246.44	49.75
331	596	1108.75	0.18	187	260.38	23.48	9	7.94	0.72	198	278.38	25.11	224	282.81	282.81	25.51
332	45	30.19	0.00	14	4.75	15.73			0.00	14	4.75	15.73	16	4.81	4.81	15.94
333	2610	10948.50	1.76	775	4038.00	36.88	30	83.94	0.77	781	4051.56	37.01	1329	4081.25	4081.25	37.28
334	167	177.56	0.03	58	18.56	10.45			0.00	58	18.56	10.45	65	20.13	20.13	11.33
335	563	867.63	0.14	200	318.31	36.69	3	0.56	0.06	202	319.25	36.80	226	319.25	319.25	36.80
336	1767	3213.63	0.52	528	956.31	29.76	13	9.38	0.29	541	970.75	30.21	628	983.69	983.69	30.61

System Integer	# of patches in 2KD	Total area (ha) in 2KD	% of total area in 2KD	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Wetland Systems																
405	509	1029.75	0.17			0.00			0.00			0.00	14	38.44	38.44	3.73
406	311	5890.56	0.95			0.00			0.00			0.00	25	2708.50	2708.50	45.98
407	34	282.63	0.05	44	134.56	47.61	11	204.63	72.40	36	271.50	96.06	51	273.06	273.06	96.62
408	29	1314.56	0.21	42	1191.50	90.64	7	868.50	66.07	28	1301.88	99.03	40	1301.94	1301.94	99.04
409	862	1939.25	0.31	319	691.00	35.63	8	12.00	0.62	351	750.63	38.71	383	750.88	750.88	38.72
410	1398	5952.19	0.96	731	2710.25	45.53	17	62.50	1.05	773	2859.06	48.03	826	3041.06	3041.06	51.09
Non-Target Ecological Systems																
Wetland Systems																
411	2390	3779.31	0.61	1116	1554.56	41.13	108	206.63	5.47	1152	1750.13	46.31	1435	1750.13	1750.13	46.31
412	4035	13951.19	2.24	1566	4248.31	30.45	50	225.25	1.61	1617	4554.63	32.65	1942	4554.69	4554.69	32.65
Unclassified Ecological Systems																
2	7	468.31	0.08	3	468.06	99.95			0.00	3	468.06	99.95	4	468.06	468.06	99.95
6	2405	3169.25	0.51	915	952.81	30.06	88	23.06	0.73	934	958.38	30.24	1136	959.50	959.50	30.28

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Lower Madawaska

Tertiary Watershed 2KE

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area:	226,633 hectares (560,010 acres)
Land Ownership:	Public Land ~ 50% Private Land ~ 50%
Planning Authority:	68% Renfrew County 16% Frontenac County 8% Lennox and Addington County 8% Lanark County

General Description:

Tertiary watershed 2KE drains into the Ottawa River. There are approximately 185,071 hectares of stream systems, 16,955 hectares of lakes and 23,844 hectares of wetlands. The Madawaska River flows through this watershed and empties into the Ottawa River. Calabogie Lake, Black Donald Lake, Centennial Lake and Norcan Lake are also found in the watershed. Mixed forest and dense deciduous forest dominate the region. Sparse deciduous forest and coniferous forest can also be found. Wetland habitats include marsh, deciduous swamp, open fen and treed bog.

Land Use:

There is very little converted land in this watershed. Forestry occurs in this watershed and there are a few scattered crop fields. Arnprior, situated on the Ottawa River, is the largest settlement. Smaller communities include Denbigh, Calabogie and White Lake.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2KE is 13,568 hectares, constituting approximately 6% of the watershed's



total area. The majority of these lands (11,191 ha) are provincially significant life science ANSIs, of which 634 hectares coincide with conservation reserves. There are approximately 8,949 hectares of protected stream systems, 1,602 hectares of protected lakes and 2,590 hectares of protected wetlands.

Species and Vegetation Community Targets:

River Redhorse (*Moxostoma carinatum*) and Ebony Boghaunter (*Williamsonia fletcheri*) are the primary targets in watershed 2KE. The secondary targets are Wood Turtle (*Glyptemys insculpta*), Bald Eagle (*Haliaeetus leucocephalus*) and Least Bittern (*Ixobrychus exilis*). Bald Eagle and Ebony Boghaunter occur in protected areas. No rare vegetation communities have been documented in this watershed.

Conservation Blueprint:

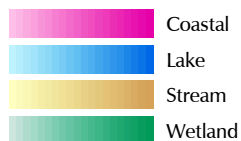
The Conservation Blueprint includes 44,876 hectares of stream systems, 5,992 hectares of lakes and 3,428 hectares of wetlands. The Conservation Blueprint also includes all of the occurrences of the primary targets River Redhorse and Ebony Boghaunter.

Great Lakes Conservation Blueprint for Biodiversity

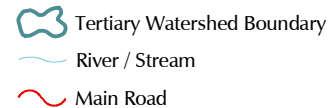
LOWER MADAWASKA WATERSHED 2KE



Aquatic Ecological Systems



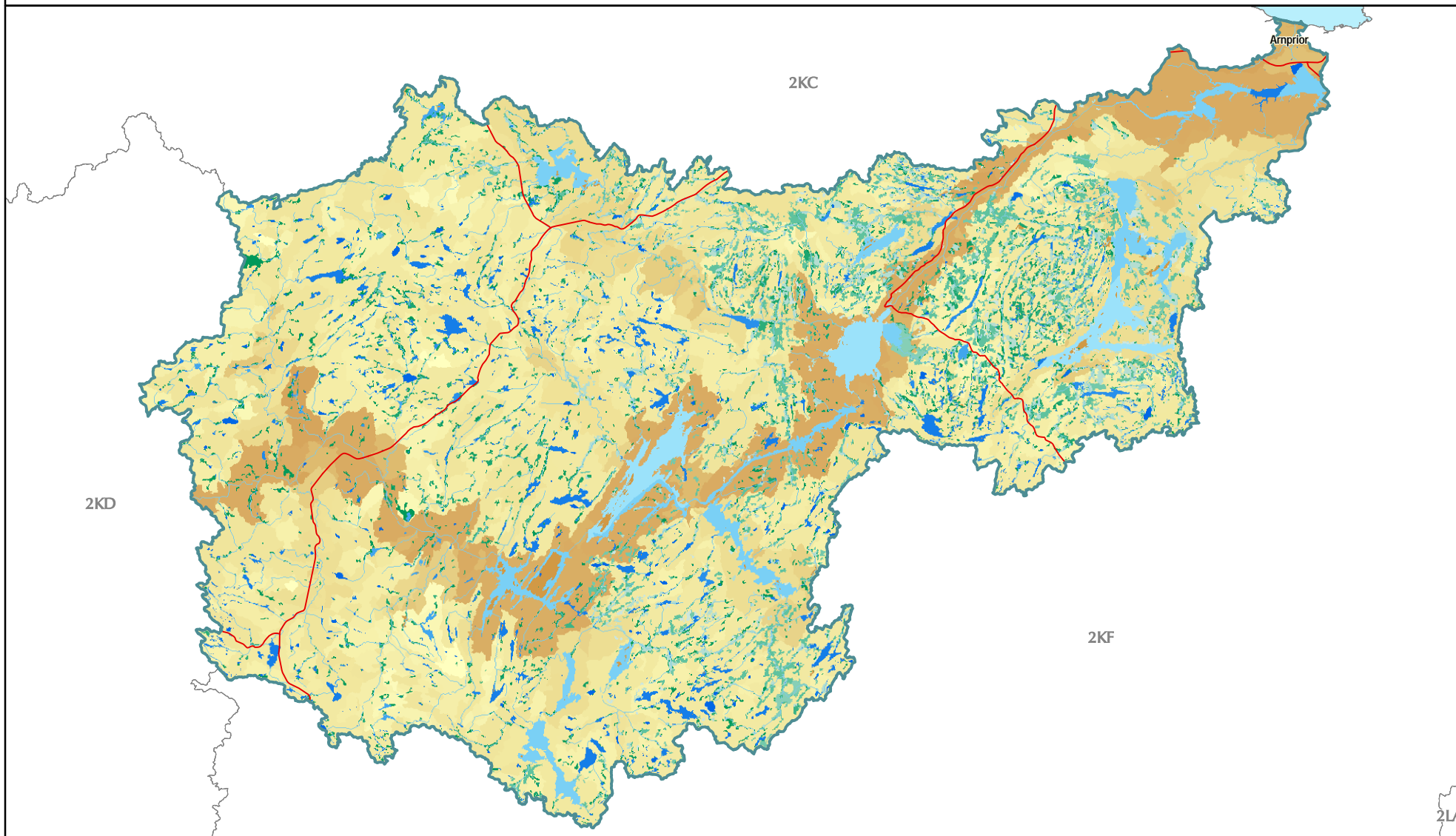
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

LOWER MADAWASKA WATERSHED 2KE



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

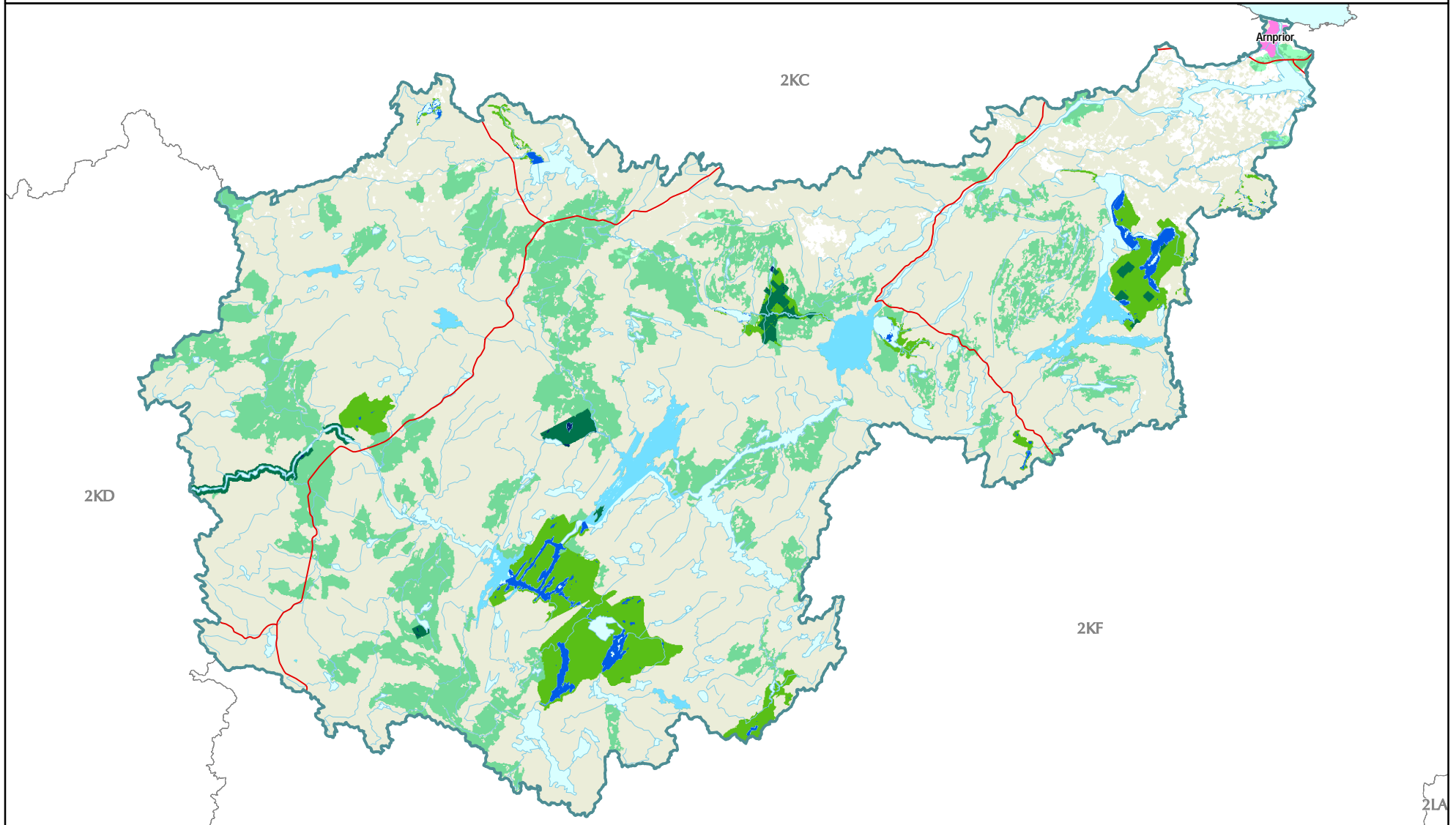
- Tertiary Watershed Boundary
- Lake / Water Course
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Projection: Lambert Conformal Conic (North American Datum 1983)



Documented extant significant species information for tertiary watershed 2KE

# pops in 2KE	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in PS LS-ANSIs	% of pops in PS LS-ANSIs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species														
1	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	0	0	0	0	0	secondary
2	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S4B,SZN	NAR	END-R	SAR	1	50	1	50	1	50	secondary
1	<i>Moxostoma carinatum</i>	River Redhorse	G4	S2	SC	SC	SAR	0	0	0	0	1	100	3
1	<i>Glyptemys insculpta</i>	Wood Turtle	G4	S2	SC	END	SAR	0	0	0	0	0	0	secondary
1	<i>Williamsonia fletcheri</i>	Ebony Boghaunter	G3G4	S2			GRank	1	100	1	100	1	100	2

Ecological systems summary for tertiary watershed 2KE

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stream Systems	185071.38	81.66	8949.13	4.84	44876.38	24.25	44275.13	23.92
Lake Systems	16955.31	7.48	1602.44	9.45	5992.44	35.34	5992.44	35.34
Wetland Systems	23844.56	10.52	2590.50	10.86	3428.75	14.38	3428.75	14.38
Tertiary watershed	226633.19	100.00	13568.13	5.99	54723.69	24.15	54122.44	23.88

Ecological systems details for tertiary watershed 2KE

System Integer	# of patches in 2KE	Total area (ha) in 2KE	% of total area in 2KE	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																
Stream Systems																
201	3	34.75	0.02			0.00			0.00			0.00	1	12.25	12.25	35.25
202	6	518.75	0.23			0.00			0.00			0.00	4	409.31	409.13	78.90
203	40	720.50	0.32			0.00			0.00			0.00	4	418.69	418.69	58.11
204	14	1442.69	0.64	1	60.31	4.18			0.00	2	60.38	4.18	6	1078.19	1057.25	74.73
205	25	741.88	0.33			0.00			0.00			0.00	8	417.81	417.25	56.32
206	61	1465.94	0.65	3	2.25	0.15	3	1.69	0.12	4	2.31	0.16	8	297.06	297.06	20.26
207	19	1643.13	0.73			0.00			0.00			0.00	7	890.31	890.31	54.18

System Integer	# of patches in 2KE	Total area (ha) in 2KE	% of total area in 2KE	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Stream Systems continued																
208	231	5518.56	2.44	2	0.75	0.01	8	82.94	1.50	27	103.19	1.87	36	1092.06	1092.06	19.79
209	219	11868.06	5.24			0.00	15	378.13	3.19	25	381.00	3.21	54	1217.38	1217.38	10.26
210	105	4892.06	2.16			0.00			0.00			0.00	22	2068.69	2068.69	42.29
211	60	1328.81	0.59	1	0.06	0.00			0.00	2	0.13	0.01	7	343.81	341.25	25.87
212	112	14945.38	6.59			0.00	1	39.69	0.27	1	39.69	0.27	24	2536.13	2491.31	16.97
213	739	36511.63	16.11	11	326.94	0.90	41	845.44	2.32	150	1216.50	3.33	276	4596.94	4566.63	12.59
214	381	13626.75	6.01	10	37.06	0.27	50	1129.25	8.29	82	1158.13	8.50	139	1929.19	1929.19	14.16
215	27	871.13	0.38	12	31.38	3.60	7	27.13	3.11	13	53.06	6.09	23	563.31	563.31	64.66
216	18	1140.75	0.50			0.00			0.00	25	39.94	3.50	6	979.88	965.13	85.90
217	405	24929.31	11.00	2	8.69	0.03	4	26.13	0.10			0.00	47	2272.94	2272.94	9.12
218	88	3718.81	1.64			0.00			0.00	5	5.25	0.14	32	723.75	723.75	19.46
219	10	2697.13	1.19	2	132.44	4.91			0.00	2	132.44	4.91	12	2226.00	2226.00	82.53
220	15	2289.19	1.01			0.00	3	149.25	6.52	4	149.31	6.52	9	1207.31	1207.31	52.74
221	339	13592.88	6.00	26	222.56	1.64	97	2619.13	19.27	167	2711.25	19.95	272	2997.44	2997.44	22.05
222	3	301.31	0.13			0.00			0.00			0.00	3	301.31	301.31	100.00
223	4	713.63	0.31			0.00			0.00			0.00	3	626.19	615.94	87.75
224	4	615.00	0.27			0.00			0.00			0.00	5	614.94	614.94	99.99
225	11	704.94	0.31			0.00			0.00			0.00	6	641.38	641.38	90.98
226	14	1983.81	0.88			0.00			0.00			0.00	5	1465.19	1386.81	73.86
227	32	1677.44	0.74			0.00	3	121.81	7.26	3	121.81	7.26	5	223.31	223.31	13.31
228	5	421.06	0.19			0.00			0.00			0.00	6	359.06	359.06	85.28
230	5	1323.56	0.58	1	7.38	0.56			0.00	1	7.38	0.56	3	1248.63	1248.63	94.34
231	8	699.38	0.31	1	3.25	0.46	1	3.25	0.46	4	10.31	1.47	7	667.19	649.81	95.40
232	2	163.44	0.07			0.00			0.00			0.00	4	163.44	163.44	100.00
233	7	457.38	0.20			0.00			0.00			0.00	6	260.50	260.50	56.96
234	4	233.94	0.10			0.00			0.00			0.00	3	233.38	233.38	99.76
235	4	385.00	0.17			0.00			0.00			0.00	4	384.75	321.00	99.94
238	2	463.38	0.20			0.00			0.00			0.00	2	463.38	186.44	100.00
241	8	1006.44	0.44	2	35.44	3.52	1	36.44	3.62	3	71.88	7.14	3	875.44	875.44	86.98
242	13	607.44	0.27			0.00			0.00			0.00	5	423.00	423.00	69.64
243	5	137.19	0.06	3	0.81	0.59			0.00	3	0.81	0.59	6	137.19	137.19	100.00

System Integer	# of patches in 2KE	Total area (ha) in 2KE	% of total area in 2KE	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Stream Systems continued																
244	4	659.50	0.29			0.00			0.00			0.00	3	354.81	330.06	53.80
245	2	54.75	0.02	1	6.38	11.64			0.00	1	6.38	11.64	2	54.75	48.75	100.00
246	2	1.63	0.00	2	1.56	96.15			0.00	2	1.56	96.15	2	1.56	1.56	96.15
247	7	558.75	0.25			0.00	1	91.25	16.33	18	103.19	18.47	19	508.81	508.81	91.06
248	34	5174.06	2.28	4	52.56	1.02	17	1222.13	23.62	17	1235.31	23.88	33	1949.50	1949.50	37.68
249	2	78.88	0.03			0.00			0.00			0.00	2	78.88	78.88	100.00
250	113	20296.81	8.96	2	625.44	3.08	14	694.81	3.42	15	1320.25	6.50	34	3360.63	3360.63	16.56
251	5	76.69	0.03			0.00			0.00			0.00	3	60.75	60.75	79.22
253	22	1237.44	0.55	3	2.50	0.20			0.00	3	2.50	0.20	4	1088.19	1078.50	87.94
254	2	51.81	0.02	1	15.19	29.31			0.00	1	15.19	29.31	2	51.81	51.81	100.00
Lake Systems																
309	14	3673.31	1.62			0.00	12	42.31	1.15	12	42.31	1.15	52	3672.00	3672.00	99.96
315	62	6063.88	2.68			0.00	27	1146.75	18.91	25	1353.50	22.32	47	1720.94	1720.94	28.38
325	4	9.69	0.00	1	0.19	1.94			0.00	1	0.19	1.94	2	0.19	0.19	1.94
326	84	385.94	0.17			0.00			0.00	32	19.88	5.15	48	23.94	23.94	6.20
327	2	1.88	0.00			0.00			0.00			0.00				0.00
328	6	2.25	0.00	1	0.38	16.67			0.00	1	0.38	16.67	1	0.38	0.38	16.67
329	39	51.69	0.02	3	0.38	0.73	8	5.63	10.88	8	5.63	10.88	9	13.69	13.69	26.48
330	163	583.13	0.26			0.00			0.00	12	4.63	0.79	20	8.69	8.69	1.49
331	89	132.94	0.06	1	0.31	0.24	3	2.00	1.50	10	3.25	2.44	17	5.81	5.81	4.37
332	2	0.31	0.00			0.00			0.00			0.00				0.00
333	1626	4538.56	2.00	4	22.69	0.50	35	85.50	1.88	63	123.69	2.73	106	492.31	492.31	10.85
334	55	46.06	0.02			0.00	4	1.19	2.58	4	1.19	2.58	4	1.19	1.19	2.58
335	101	113.88	0.05			0.00	4	4.88	4.28	4	4.88	4.28	7	9.38	9.38	8.23
336	1190	1351.81	0.60	14	13.75	1.02	32	28.25	2.09	46	42.94	3.18	50	43.94	43.94	3.25
Wetland Systems																
401	507	1320.81	0.58	14	28.94	2.19	53	208.38	15.78	66	228.38	17.29	96	230.19	230.19	17.43
402	729	4923.50	2.17	24	103.94	2.11	50	584.19	11.87	93	690.00	14.01	112	787.38	787.38	15.99
404	2	369.56	0.16			0.00	1	146.06	39.52	5	330.88	89.53	2	369.56	369.56	100.00
405	792	2359.38	1.04	15	51.13	2.17	87	328.06	13.90	113	367.56	15.58	144	367.56	367.56	15.58
406	749	5863.31	2.59	8	125.00	2.13	44	372.19	6.35	72	425.25	7.25	93	1029.63	1029.63	17.56

System Integer	# of patches in 2KE	Total area (ha) in 2KE	% of total area in 2KE	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																
Wetland Systems continued																
407	58	62.38	0.03			0.00	11	13.69	21.94	26	24.06	38.58	32	26.06	26.06	41.78
408	91	282.69	0.12	4	1.75	0.62	11	41.63	14.72	28	60.19	21.29	37	61.06	61.06	21.60
409	306	590.81	0.26	16	17.44	2.95	25	36.69	6.21	37	41.81	7.08	39	71.31	71.31	12.07
410	428	1638.81	0.72	10	17.13	1.04	22	62.81	3.83	24	64.25	3.92	31	127.81	127.81	7.80
Non-Target Ecological Systems																
Wetland Systems																
411	1438	1371.38	0.61	19	10.81	0.79	110	87.19	6.36	150	121.75	8.88	166	121.75	121.75	8.88
412	2377	5061.94	2.23	30	36.06	0.71	84	156.88	3.10	147	236.38	4.67	186	236.44	236.44	4.67
Unclassified Ecological Systems																
2	5	488.69	0.22			0.00			0.00			0.00				0.00
5	2	0.13	0.00			0.00			0.00			0.00				0.00
6	534	761.81	0.34	10	67.31	8.84	42	368.31	48.35	55	426.06	55.93	74	426.13	426.13	55.94

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Mississippi

Tertiary Watershed 2KF

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area:	443,633 hectares (1,096,217 acres)
Land Ownership:	Private Land ~ 80%, Public Land ~ 20%
Planning Authority:	43% Lanark County 29% Frontenac County 22% Ottawa-Carleton Region 5% Lennox and Addington County 1% Renfrew County

General Description:

Tertiary watershed 2KF drains into the Ottawa River. There are approximately 352,223 hectares of stream systems, 25,303 hectares of lakes and 62,267 hectares of wetlands. The large water bodies in the watershed include the Mississippi River, Mississippi Lake and Sharbot Lake. Mixed forest and dense deciduous forest dominate the land cover. Dense coniferous forests and sparse deciduous forests are scattered through the watershed, and some sparse coniferous forest is found in the west. Wetland types include marsh, deciduous and coniferous swamp, open fen and treed bog. Some small alvars occur in the eastern half of the watershed.

Land Use:

The dominant land use is agriculture, with cropland and pasture scattered throughout the eastern portion of the watershed. A large patch of developed land occurs around the city of Ottawa. The watershed also contains the communities of Nepean, Kanata and Carleton Place. Recent cutovers are present in the west.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed



2KF is 29,950 hectares, constituting approximately 6.8% of the watershed's total area. Almost half of these lands (14,249 ha) are located in provincially significant life science ANSIs, of which 513 hectares coincide with provincial parks. Another 6,977 hectares are in provincially protected areas, including Bon Echo Provincial Park. There are approximately 14,872 hectares of protected stream systems, 2,174 hectares of protected lakes and 12,433 hectares of protected wetlands.

Species and Vegetation Community Targets:

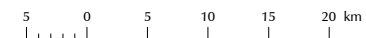
Nine species targets occur in watershed 2KF, including Lake Sturgeon (*Acipenser fulvescens*), Ram's-head Lady's-slipper (*Cypripedium arietinum*), Rapids Clubtail (*Gomphus quadricolor*), River Redhorse (*Moxostoma carinatum*), Spotted Turtle (*Clemmys guttata*) and Least Bittern (*Ixobrychus exilis*). No rare vegetation communities have been documented in this watershed.

Conservation Blueprint:

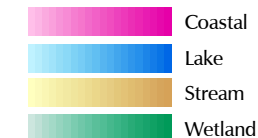
The Conservation Blueprint includes 61,505 hectares of stream systems, 13,021 hectares of lakes and 13,592 hectares of wetlands. The Conservation Blueprint also includes occurrences of Lake Sturgeon (1), Ram's-head Lady's-slipper (2), Rapids Clubtail (2) and River Redhorse (3).

Great Lakes Conservation Blueprint for Biodiversity

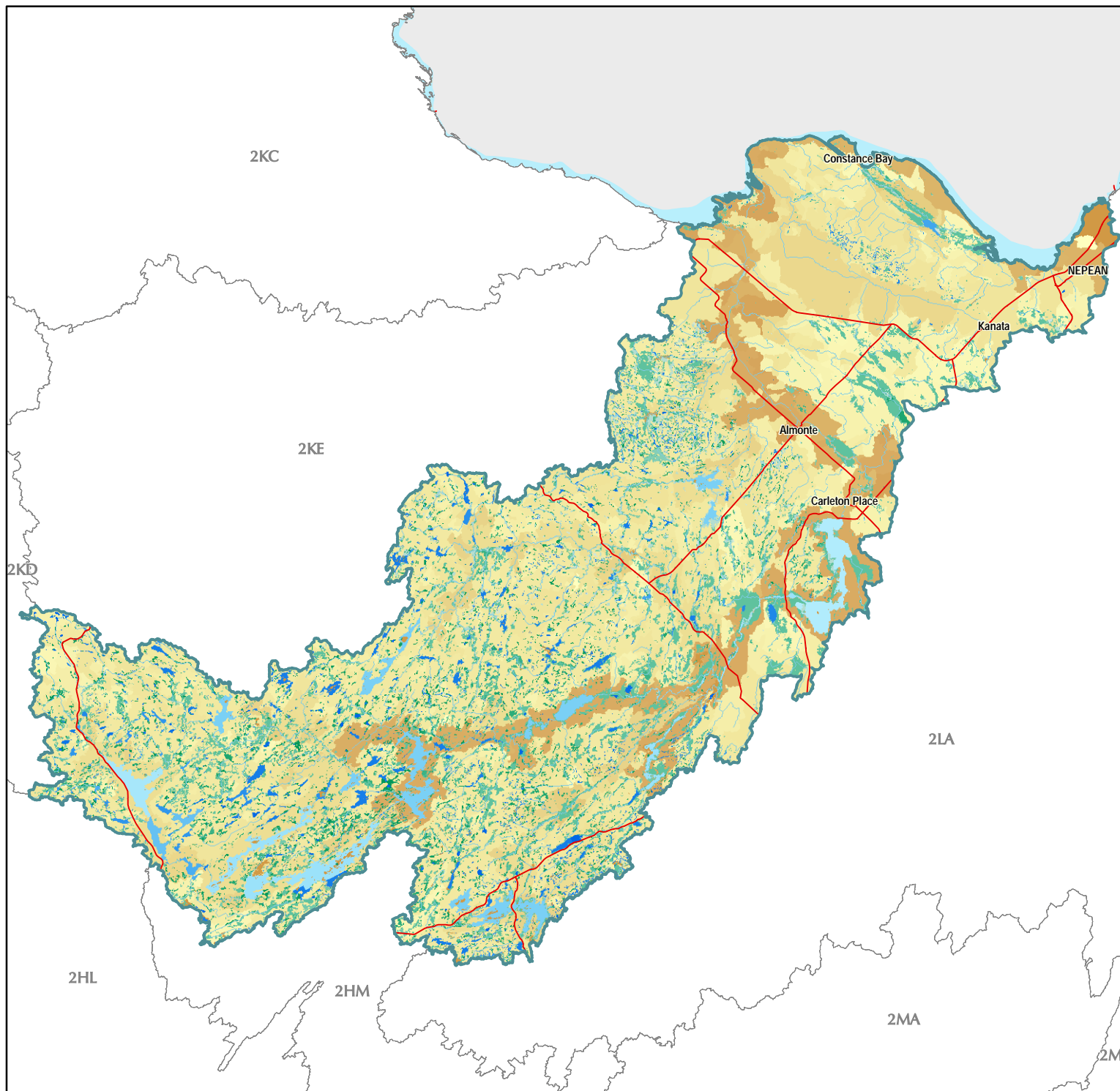
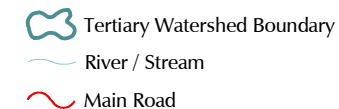
MISSISSIPPI WATERSHED 2KF



Aquatic Ecological Systems



Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

MISSISSIPPI WATERSHED 2KF



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

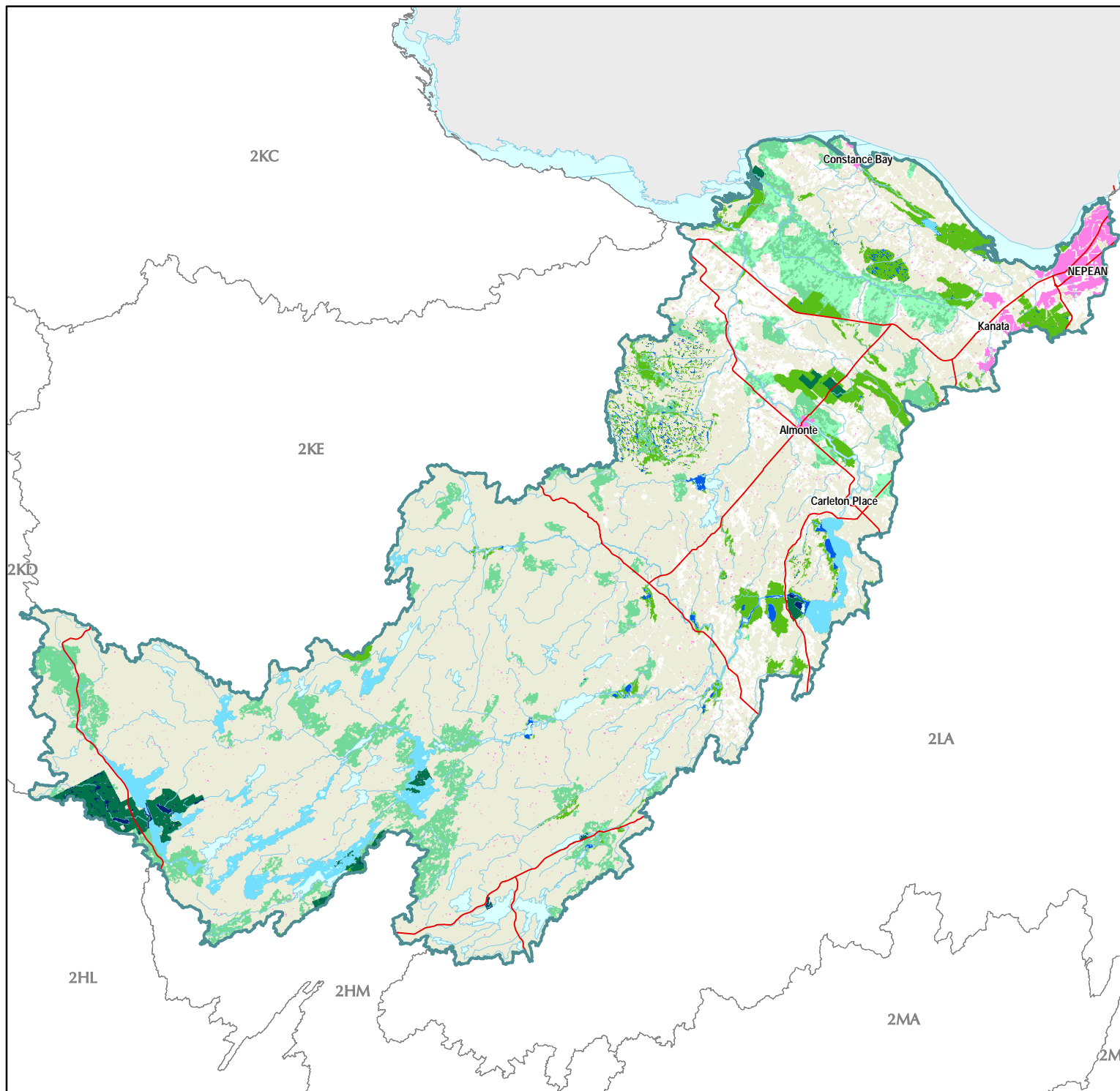
- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Documented extant significant species information for tertiary watershed 2KF

# pops in 2KF	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in Parks and PAs	% of pops in Parks and PAs	# of pops in PS LS-ANSIs	% of pops in PS LS-ANSIs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species																
1	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	0	0	0	0	0	0	0	secondary
5	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	0	0	0	1	20	2	40	secondary
1	<i>Acipenser fulvescens</i>	Lake Sturgeon	G3G4	S3	SC	NAR	GRank SAR	0	0	0	0	0	0	1	100	2
3	<i>Moxostoma carinatum</i>	River Redhorse	G4	S2	SC	SC	SAR	0	0	0	0	0	0	3	100	3
1	<i>Clemmys guttata</i>	Spotted Turtle	G5	S3	END	SC	SAR	0	0	1	100	1	100	1	100	secondary
4	<i>Graptemys geographica</i>	Northern Map Turtle	G5	S3	SC	SC	SAR	0	0	1	25	1	25	1	25	secondary
2	<i>Sternotherus odoratus</i>	Stinkpot	G5	S3	THR	THR	SAR	0	0	2	100	2	100	2	100	secondary
1	<i>Gomphus quadricolor</i>	Rapids Clubtail	G3G4	S1			GRank	0	0	0	0	0	0	1	100	2
7	<i>Cypripedium arietinum</i>	Ram's-head Lady's-slipper	G3	S3			GRank	1	14	3	43	4	57	4	57	2

Ecological systems summary for tertiary watershed 2KF

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stream Systems	352223.56	79.40	14872.13	4.22	61505.81	17.46	51499.94	14.62
Lake Systems	25303.81	5.70	2174.31	8.59	13021.75	51.46	13021.75	51.46
Wetland Systems	62267.81	14.04	12433.00	19.97	13592.13	21.83	13592.13	21.83
Tertiary watershed	443633.44	100.00	29950.81	6.75	88670.38	19.99	78656.81	17.73

Ecological systems details for tertiary watershed 2KF

System Integer	# of patches in 2KF	Total area (ha) in 2KF	% of total area in 2KF	# of patches in federal lands	Total area (ha) in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																		
Stream Systems																		
201	6	71.19	0.02			1	4.25					1	4.25	5.97	7	8.19	8.19	11.50
202	6	197.44	0.04			1	18.13	1	33.69			1	33.81	17.13	7	182.06	167.06	92.21
203	145	8751.06	1.97	1	9.81	4	222.31	44	1057.44			196	1224.50	13.99	248	1380.25	1380.25	15.77

System Integer	# of patches in 2KF	Total area (ha) in 2KF	% of total area in 2KF	# of patches in federal lands	Total area (ha) in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																		
Stream Systems continued																		
204	14	786.13	0.18									4	0.63	0.08	6	707.13	707.13	89.95
205	134	6643.00	1.50	2	21.19	2	6.19	77	644.38			180	689.31	10.38	206	2281.31	2278.94	34.34
206	71	11044.38	2.49			4	374.44	34	1705.88			66	1709.50	15.48	101	1912.13	1912.13	17.31
207	10	879.44	0.20											0.00	5	703.00	703.00	79.94
208	228	11087.56	2.50			13	113.19	17	208.31			180	370.75	3.34	185	956.25	956.25	8.62
209	317	10933.75	2.46			12	259.94					100	272.88	2.50	136	1143.69	1143.69	10.46
210	83	12142.94	2.74					14	193.75			21	194.56	1.60	59	1891.25	1873.75	15.57
211	172	5570.06	1.26			13	93.94	16	151.06			198	301.75	5.42	291	978.94	978.94	17.57
212	73	6071.13	1.37			3	28.94					50	40.81	0.67	39	848.25	848.13	13.97
213	1408	77085.50	17.38			51	1403.63	49	1399.19	4	48.19	1676	3170.31	4.11	2319	6882.19	6882.19	8.93
214	850	35850.19	8.08			30	1312.19	4	100.69			466	1618.50	4.51	531	1963.25	1963.25	5.48
215	32	2555.38	0.58					4	16.31			28	18.25	0.71	42	885.56	735.00	34.65
216	60	3224.75	0.73					37	53.00			66	57.69	1.79	78	57.69	57.69	1.79
217	326	40667.81	9.17			4	51.63	47	942.44			147	1017.69	2.50	215	1382.69	1381.94	3.40
218	156	8632.25	1.95					29	150.88			56	160.06	1.85	84	1010.13	1005.44	11.70
219	37	1682.13	0.38			2	15.38					21	44.69	2.66	25	1560.31	1535.63	92.76
220	43	3545.50	0.80					4	0.88			4	0.88	0.02	15	1176.81	1175.88	33.19
221	442	29592.25	6.67			33	961.88	11	230.13			310	1215.88	4.11	353	2475.38	2475.38	8.36
222	6	485.56	0.11									8	15.38	3.17	12	481.56	442.63	99.18
223	2	41.81	0.01											0.00				0.00
224	4	632.13	0.14			1	39.25					1	39.25	6.21	4	631.81	550.31	99.95
225	6	12835.63	2.89			2	92.19	9	642.56			20	735.88	5.73	13	12835.25	6314.31	100.00
226	57	1894.94	0.43									17	2.94	0.16	33	1401.56	1401.56	73.96
227	207	10254.19	2.31			2	0.50					75	15.88	0.15	129	937.63	937.63	9.14
228	24	261.88	0.06											0.00	15	246.63	246.63	94.18
231	60	2009.81	0.45			1	3.88	2	3.00			69	42.56	2.12	97	668.63	668.63	33.27
233	2	42.19	0.01											0.00				0.00
234	3	4.19	0.00									2	2.38	56.72	6	2.38	2.38	56.72
235	29	218.69	0.05			1	13.56					7	21.00	9.60	21	49.81	49.19	22.78
236	1	15.06	0.00											0.00	7	0.50		3.32
238	10	1.75	0.00											0.00				0.00
241	24	1539.25	0.35	1	2.75			20	55.00			24	58.56	3.80	35	58.56	58.56	3.80

System Integer	# of patches in 2KF	Total area (ha) in 2KF	% of total area in 2KF	# of patches in federal lands	Total area (ha) in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																		
Stream Systems continued																		
242	5	97.63	0.02											0.00	3	84.69	79.19	86.75
243	2	311.19	0.07											0.00	3	311.19	155.38	100.00
244	47	3800.81	0.86					30	138.06			27	140.25	3.69	44	646.50	582.31	17.01
246	3	379.31	0.09											0.00	11	379.56	298.94	100.00
247	12	5980.75	1.35					27	207.13			64	214.94	3.59	78	2929.63	1713.75	48.98
248	61	5901.56	1.33					5	135.44			32	143.00	2.42	51	3087.94	3087.94	52.32
249	8	189.44	0.04											0.00	3	163.06	163.06	86.08
250	506	21712.25	4.89	15	146.69	20	340.50	99	379.94			329	913.75	4.21	469	3275.31	2806.00	15.09
251	4	415.50	0.09											0.00	3	415.44	230.31	99.98
252	1	301.94	0.07											0.00	1	301.94	256.94	100.00
253	23	3542.38	0.80					4	350.38			31	353.81	9.99	13	1648.50	1159.31	46.54
254	9	1912.25	0.43					3	25.88			3	25.88	1.35	6	561.31	125.19	29.35
Lake Systems																		
302	10	2354.06	0.53	2	57.13			2	103.88			13	334.81	14.22	12	2352.63	2352.63	99.94
305	4	1177.50	0.27			1	35.50					1	35.50	3.01	6	1177.31	1177.31	99.98
309	124	4099.13	0.92	3	32.06	3	0.19	6	134.00			20	148.88	3.63	85	3556.19	3556.19	86.75
315	93	5885.31	1.33			1	9.19					15	236.31	4.02	53	2659.50	2659.50	45.19
320	3	677.69	0.15			3	29.13					3	29.13	4.30	4	677.63	677.63	99.99
325	84	290.06	0.07			11	34.94					11	34.94	12.04	22	212.94	212.94	73.41
326	120	295.31	0.07					9	11.31			26	46.63	15.79	25	182.25	182.25	61.71
327	10	41.38	0.01			3	8.13					3	8.13	19.64	6	8.13	8.13	19.64
328	66	27.44	0.01			6	0.94	7	1.94			11	2.44	8.88	15	2.44	2.44	8.88
329	578	973.94	0.22			95	290.06	14	7.38	3	1.00	107	299.00	30.70	222	306.56	306.56	31.48
330	95	522.00	0.12									9	6.75	1.29	17	290.63	290.63	55.68
331	95	264.81	0.06	1	0.13			13	158.88			17	162.88	61.51	20	164.50	164.50	62.12
332	13	8.94	0.00			3	1.75					3	1.75	19.58	3	1.75	1.75	19.58
333	3822	6926.69	1.56			20	41.69	132	88.19			720	640.38	9.25	1326	1222.88	1222.88	17.65
334	238	197.50	0.04			22	19.75	4	1.44	2	0.31	27	21.38	10.82	32	21.75	21.75	11.01
335	87	134.06	0.03									7	51.44	38.37	11	54.75	54.75	40.84
336	1848	1428.00	0.32			7	7.63	33	10.44			227	114.00	7.98	291	129.94	129.94	9.10
Wetland Systems																		
401	681	1186.00	0.27	6	3.06			89	100.56			218	221.75	18.70	256	222.31	222.31	18.74

System Integer	# of patches in 2KF	Total area (ha) in 2KF	% of total area in 2KF	# of patches in federal lands	Total area (ha) in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																		
Wetland Systems continued																		
402	949	5328.44	1.20	1	15.81			103	362.56			605	1620.50	30.41	738	1668.38	1668.38	31.31
404	1	198.44	0.04									4	148.56	74.87	2	198.44	198.44	100.00
405	3456	7188.69	1.62	2	3.00	114	196.44	158	358.56	3	9.50	551	815.63	11.35	686	815.81	815.81	11.35
406	2869	31349.75	7.07	4	117.25	74	409.25	156	3791.94	2	2.94	888	8162.63	26.04	1134	8974.25	8974.25	28.63
407	366	412.50	0.09	1	0.88	1	0.25	32	30.94			119	89.75	21.76	135	91.81	91.81	22.26
408	492	1781.38	0.40			2	33.81	33	50.81			193	397.63	22.32	239	605.19	605.19	33.97
409	749	1806.56	0.41			14	16.81	2	2.13			20	28.06	1.55	28	32.75	32.75	1.81
410	644	3001.44	0.68			20	43.81	5	141.69			31	186.69	6.22	37	221.31	221.31	7.37
Non-Target Ecological Systems																		
Wetland Systems																		
411	2625	2540.44	0.57			67	70.63	14	10.00	2	1.88	350	234.88	9.25	418	234.88	234.88	9.25
412	3507	7474.19	1.68			86	199.19	6	12.56			471	526.94	7.05	616	527.00	527.00	7.05
Unclassified Ecological Systems																		
2	14	427.69	0.10											0.00				0.00
5	125	62.38	0.01			2	0.19	52	12.81			54	13.00	20.84	59	20.69	13.00	33.17
6	1803	3775.88	0.85			97	171.94	50	32.19			267	458.38	12.14	469	530.00	530.00	14.04

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Rideau

Tertiary Watershed 2LA

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area: 391,829 hectares (968,209 acres)

Land Ownership: Private Land ~ 90%
Public Land ~ 10%

Planning Authority: 35% Leeds and Grenville County
29% Lanark County
26% Ottawa-Carleton Region
10% Frontenac County

General Description:

Tertiary watershed 2LA drains into the Ottawa River. There are approximately 308,024 hectares of stream systems, 15,540 hectares of lakes and 65,448 hectares of wetlands. This watershed roughly follows the Rideau River and the Rideau Canal, from the city of Ottawa to Big Rideau Lake. Lower Rideau Lake, Otty Lake and Otter Lake are also located in the catchment. The land cover is dominated by dense deciduous forest. Other forest types include dense and sparse coniferous forest, mixed forest and sparse deciduous forest. Wetland habitats include marsh, deciduous and coniferous swamp, open fen and treed bog. A small amount of alvar occurs in the centre of the watershed.

Land Use:

Agricultural activity is the dominant land use by area in the watershed; cropland and pasture are scattered throughout the area. A large area of developed land occurs around the city of Ottawa. Other communities include Smiths Falls, Westport and Merrickville.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2LA is 40,135 hectares, constituting approximately 10.2% of the watershed's total area. Over one-quarter of these lands (11,760 ha) are



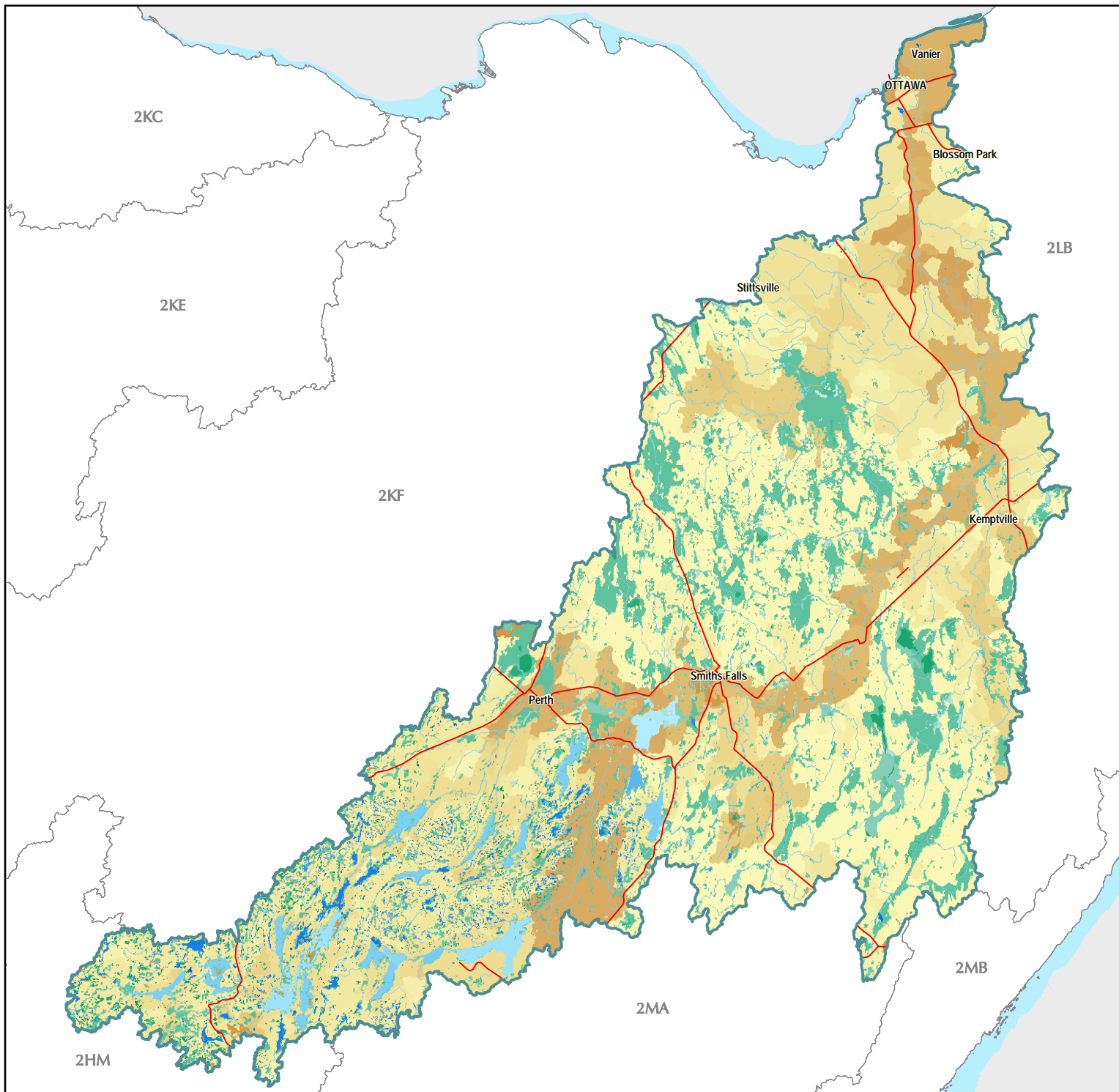
provincially significant life science ANSIs. There are approximately 8,279 hectares of protected stream systems, 988 hectares of protected lakes and 29,625 hectares of protected wetlands.

Species and Vegetation Community Targets:

The primary targets in watershed 2LA are Lake Sturgeon (*Acipenser fulvescens*), Ram's-head Lady's-slipper (*Cypripedium arietinum*), Eastern Prairie Fringed-orchid (*Platanthera leucophaea*) and Ebony Boghaunter (*Williamsonia fletcheri*). There are also seven secondary targets. Ram's-head Lady's-slipper, Eastern Prairie Fringed-orchid and Ebony Boghaunter are known to occur in conservation lands. Cotton-grass Graminoid Bog, Slender Sedge Graminoid Fen, and Sweet Gale Shrub Fen are significant vegetation communities in the watershed. All three of these vegetation communities are present in conservation lands.

Conservation Blueprint:

The Conservation Blueprint includes 47,718 hectares of stream systems, 8,721 hectares of lakes and 31,066 hectares of wetlands. The Conservation Blueprint also includes occurrences of Lake Sturgeon, Ram's-head Lady's-slipper, Eastern Prairie Fringed-orchid and Ebony Boghaunter. The portfolio also includes occurrences for all of the target vegetation communities.

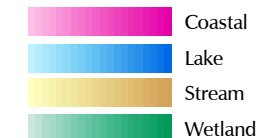


Great Lakes Conservation Blueprint for Biodiversity

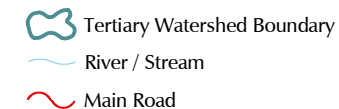
RIDEAU WATERSHED 2LA



Aquatic Ecological Systems



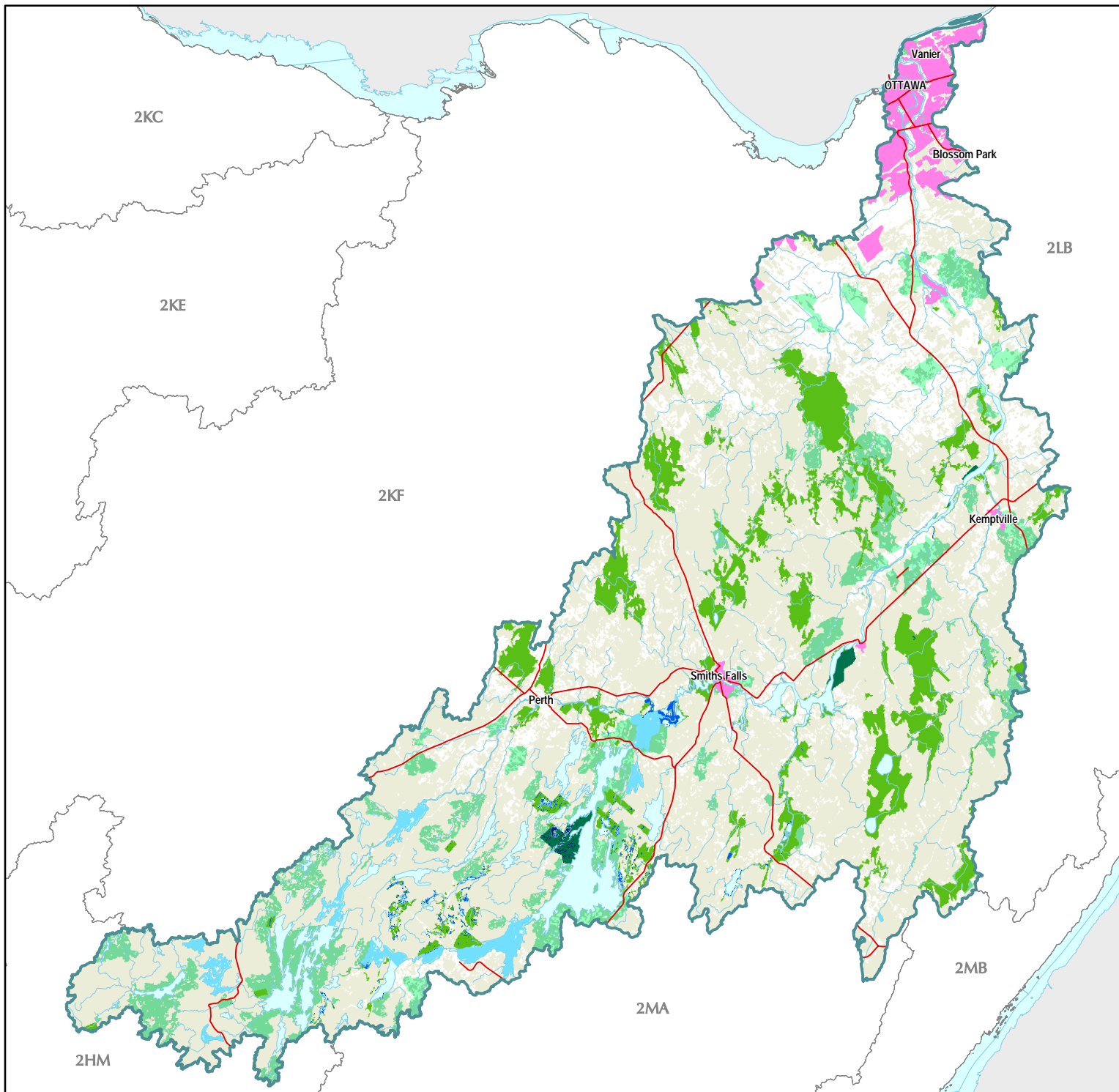
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

RIDEAU WATERSHED 2LA



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Documented extant vegetation communities and significant species information for tertiary watershed 2LA

# pops in 2LA	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in PS LS-ANSIs	% of pops in PS LS-ANSIs	# of pops in CAs	% of pops in CAs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species																
8	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	1	13	0	0	5	63	5	63	secondary
1	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S4B,SZN	NAR	END-R	SAR	0	0	0	0	0	0	1	100	secondary
1	<i>Coturnicops noveboracensis</i>	Yellow Rail	G4	S4B,SZN	SC	SC	SAR	1	100	0	0	1	100	1	100	secondary
18	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	4	22	1	6	10	56	13	72	secondary
1	<i>Acipenser fulvescens</i>	Lake Sturgeon	G3G4	S3	SC	NAR	GRank SAR	0	0	0	0	0	0	1	100	2
1	<i>Clemmys guttata</i>	Spotted Turtle	G5	S3	END	SC	SAR	1	100	0	0	1	100	1	100	secondary
3	<i>Graptemys geographica</i>	Northern Map Turtle	G5	S3	SC	SC	SAR	0	0	0	0	0	0	0	0	secondary
8	<i>Sternotherus odoratus</i>	Stinkpot	G5	S3	THR	THR	SAR	0	0	0	0	0	0	0	0	secondary
3	<i>Williamsonia fletcheri</i>	Ebony Boghaunter	G3G4	S2			GRank	1	33	0	0	1	33	2	67	2
1	<i>Cypripedium arietinum</i>	Ram's-head Lady's-slipper	G3	S3			GRank	0	0	0	0	1	100	1	100	2
2	<i>Platanthera leucophaea</i>	Eastern Prairie Fringed-orchid	G2	S2	END	END	GRank SAR	2	100	0	0	2	100	2	100	all viable
Communities																
1	Cotton-grass Graminoid Bog Type		G3G4	S5			GRank	1	100	0	0	1	100	1	100	all viable
1	Slender Sedge Graminoid Fen Type		G4G5	S5			high quality	1	100	0	0	1	100	1	100	secondary
1	Sweet Gale Shrub Fen Type		G?	S5			high Quality	1	100	0	0	1	100	1	100	secondary

Ecological systems summary for tertiary watershed 2LA

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stream Systems	308024.00	78.61	8279.06	2.69	47718.56	15.49	40198.69	13.05
Lake Systems	15540.81	3.97	988.38	6.36	8721.44	56.12	8721.44	56.12
Wetland Systems	65448.50	16.70	29625.63	45.27	31066.63	47.47	31066.63	47.47
Tertiary watershed	391829.88	100.00	40135.13	10.24	88914.00	22.69	81394.31	20.77

Ecological systems details for tertiary watershed 2LA

System Integer	# of patches in 2LA	Total area (ha) in 2LA	% of total area in 2LA	# of patches in federal lands	Total area (ha) in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																		
Stream Systems																		
201	2	8.81	0.00									1	0.06	0.71	1	0.06	0.06	0.71
202	1	0.06	0.00											0.00				0.00
203	257	33699.31	8.60			3	18.06	109	495.00	8	66.56	945	768.06	2.28	1091	1402.25	1402.13	4.16
204	2	80.38	0.02									1	7.63	9.49	6	80.38	78.00	100.00
205	426	55963.00	14.28					171	1076.75	13	92.38	1487	1664.88	2.97	1772	2875.50	2783.25	5.14
206	54	6867.50	1.75									13	1.19	0.02	21	1657.19	1563.25	24.13
207	1	7.25	0.00											0.00				0.00
208	67	7180.88	1.83					2	0.13	3	4.69	66	10.69	0.15	82	771.00	729.56	10.74
209	91	2563.31	0.65									3	0.44	0.02	18	941.94	941.94	36.75
210	48	4884.69	1.25									25	2.25	0.05	33	1148.25	813.31	23.51
211	130	11093.94	2.83					46	186.31	5	24.88	174	236.13	2.13	219	1171.31	1141.31	10.56
212	4	60.25	0.02									1	0.31	0.52	3	53.94	52.69	89.52
213	452	25649.19	6.55			11	193.25	17	98.50	38	269.13	433	796.06	3.10	653	2360.19	2355.06	9.20
214	447	20897.06	5.33			1	0.63	20	283.94	34	404.38	304	943.25	4.51	487	2829.00	2823.38	13.54
215	42	6321.63	1.61									11	4.19	0.07	20	5.75	5.63	0.09
216	35	10012.81	2.56									10	0.75	0.01	14	156.69	136.25	1.56
217	51	8079.19	2.06					5	17.13			9	17.94	0.22	20	636.94	568.75	7.88
218	41	14986.31	3.82					4	49.25			24	51.88	0.35	30	1893.81	1406.81	12.64
219	23	1214.75	0.31											0.00	13	1155.75	331.56	95.14
220	7	260.00	0.07											0.00	5	160.06	43.69	61.56
221	278	22374.31	5.71			2	154.50	7	149.75	10	365.06	158	816.69	3.65	334	5899.56	5883.69	26.37
222	1	564.75	0.14											0.00	2	564.75	91.94	100.00
225	2	436.06	0.11											0.00	2	436.06	212.50	100.00
226	27	8513.81	2.17					2	6.00			68	55.63	0.65	83	235.38	231.00	2.76
227	73	1980.00	0.51			8	5.94			3	7.13	34	17.69	0.89	47	635.75	635.75	32.11
228	8	137.25	0.04									3	42.81	31.19	6	50.19	50.19	36.57
230	8	276.56	0.07									5	0.44	0.16	6	142.50	117.25	51.53
231	68	11698.81	2.99					43	134.25			241	364.38	3.11	287	982.44	970.56	8.40
233	5	157.81	0.04											0.00	8	30.56	30.56	19.37
235	18	3045.88	0.78									3	0.63	0.02	10	1688.50	1198.50	55.44
236	1	93.00	0.02											0.00	1	93.00	91.25	100.00
238	9	895.75	0.23			1	10.06	1	0.25			14	11.31	1.26	17	807.56	303.88	90.15
240	1	0.31	0.00											0.00				0.00

System Integer	# of patches in ZLA	Total area (ha) in ZLA	% of total area in ZLA	# of patches in federal lands	Total area (ha) in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																		
Stream Systems continued																		
241	59	9525.88	2.43	3	341.69	2	82.75	38	169.25	8	77.81	235	765.25	8.03	297	765.25	765.25	8.03
243	3	24.50	0.01									1	0.06	0.26	1	0.06	0.06	0.26
244	5	2149.81	0.55									8	1.19	0.06	5	1405.06	695.19	65.36
246	5	357.63	0.09							2	6.44	5	7.19	2.01	4	357.44	317.31	99.95
247	50	14903.00	3.80	3	205.06			38	88.63	14	49.56	167	588.00	3.95	228	815.13	640.81	5.47
248	7	565.00	0.14									29	4.00	0.71	4	256.38	185.13	45.38
250	83	16398.88	4.19			14	600.31			12	302.25	162	1043.38	6.36	186	10422.31	9409.75	63.56
251	5	369.63	0.09											0.00	2	369.19	149.00	99.88
252	2	454.44	0.12											0.00	3	454.69	13.19	100.00
253	13	2343.75	0.60									4	8.25	0.35	11	1432.25	796.94	61.11
254	3	530.44	0.14									3	2.38	0.45	3	530.44	188.25	100.00
Lake Systems																		
302	19	1081.25	0.28									15	260.06	24.05	16	1073.81	1073.81	99.31
309	88	2772.88	0.71											0.00	120	2715.00	2715.00	97.91
313	1	213.31	0.05											0.00	11	213.31	213.31	100.00
315	111	4942.81	1.26							1	2.75	17	26.19	0.53	100	2481.00	2481.00	50.19
317	4	217.38	0.06					5	4.63			5	4.63	2.13	10	216.00	216.00	99.37
319	1	0.06	0.00					1	0.06			1	0.06	100.00	1	0.06	0.06	100.00
322	45	279.50	0.07									29	2.94	1.05	38	273.44	273.44	97.83
325	60	32.69	0.01									1	0.06	0.19	3	0.25	0.25	0.76
326	239	131.63	0.03	2	0.38	1	2.63	11	8.19	2	0.69	51	23.25	17.66	74	23.63	23.63	17.95
327	33	12.25	0.00							2	1.25	2	1.25	10.20	2	1.25	1.25	10.20
328	151	52.19	0.01									1	0.06	0.12	8	4.38	4.38	8.38
329	504	399.06	0.10							2	0.19	6	1.25	0.31	43	13.38	13.38	3.35
330	34	26.94	0.01					1	0.44			7	2.88	10.67	7	2.88	2.88	10.67
331	256	137.44	0.04	1	0.06			7	1.50	2	1.00	25	30.00	21.83	34	32.44	32.44	23.60
332	38	10.06	0.00											0.00				0.00
333	3123	4537.38	1.16			85	125.31	24	9.56	116	108.44	531	578.81	12.76	1142	1510.63	1510.63	33.29
334	273	100.50	0.03							8	2.00	8	2.00	1.99	22	5.06	5.06	5.04
335	70	55.69	0.01									1	0.06	0.11	5	29.31	29.31	52.64
336	1116	537.81	0.14			24	4.63	8	4.94	36	19.88	112	54.88	10.20	197	125.63	125.63	23.36
Wetland Systems																		
401	510	1041.38	0.27			3	3.63	27	126.06	12	17.56	194	443.00	42.54	222	444.56	444.56	42.69

System Integer	# of patches in ZLA	Total area (ha) in ZLA	% of total area in ZLA	# of patches in federal lands	Total area (ha) in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																		
Wetland Systems continued																		
402	582	2881.13	0.74	2	35.38			31	192.75	18	34.88	257	1482.00	51.44	320	1543.50	1543.50	53.57
404	14	2472.63	0.63					9	1648.06	5	55.31	16	2325.13	94.03	21	2460.63	2460.63	99.51
405	3116	7352.06	1.88	6	9.38	39	66.56	127	360.38	56	58.44	463	964.63	13.12	579	1049.88	1050.06	14.28
406	2209	45559.69	11.63	6	14.50	30	140.38	66	5445.63	58	425.88	589	22700.38	49.83	776	23703.38	23703.38	52.03
407	489	981.13	0.25					26	242.31	7	3.94	92	287.06	29.26	107	288.44	288.44	29.40
408	439	1430.00	0.36			1	0.56	10	92.19	9	14.94	64	280.31	19.60	77	367.63	367.63	25.71
409	251	644.94	0.16					2	18.75	5	5.00	17	247.25	38.34	24	251.88	251.88	39.05
410	190	1580.50	0.40					4	471.56	3	2.81	10	856.50	54.19	16	917.38	917.38	58.04
Non-Target Ecological Systems																		
Wetland Systems																		
411	522	458.00	0.12			11	4.88			15	9.94	28	15.69	3.43	36	15.69	15.69	3.43
412	614	1047.06	0.27			12	9.88			12	13.00	28	23.69	2.26	29	23.69	23.69	2.26
Unclassified Ecological Systems																		
2	31	396.44	0.10					3	44.00			4	44.13	11.13	7	44.13	44.13	11.13
5	11	42.81	0.01					2	31.94			2	32.31	75.47	4	32.31	32.31	75.47
6	1891	2773.75	0.71			17	3.31	12	302.81	32	27.94	233	1209.75	43.61	467	1375.06	1375.06	49.57

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Lower Ottawa – South Nation

Tertiary Watershed 2LB

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area:	516,052 hectares (1,275,164 acres)
Land Ownership:	Private Land ~ 98% Public Land ~ 2%
Planning Authority:	38% Prescott and Russell County 34% Stormant Dundas and Glengarry County 17% Ottawa-Carleton Region 11% Leeds and Grenville County

General Description:

Tertiary watershed 2LB drains into the Ottawa River. There are approximately 476,245 hectares of stream systems, 471 hectares of lakes and 38,356 hectares of wetlands. The north edge of this watershed follows the Ottawa River from Gloucester to Pointe-Fortune, at Ontario's eastern boundary. The South Nation, Middle, North, East and South Castor Rivers are located here. The remaining natural cover is primarily dense deciduous forest. Coniferous, mixed and sparse deciduous forests are also present. Wetland habitats include marsh, deciduous swamp, coniferous swamp and some open fen.

Land Use:

Agriculture is the primary land use in the watershed; cropland covers over one-quarter of the land area. Scattered pastures and developed areas are also present. Patches of conifer plantation occur in the north part of the region. Gloucester is the largest community in the watershed.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2LB is 25,729 hectares, constituting approximately 5% of the watershed's



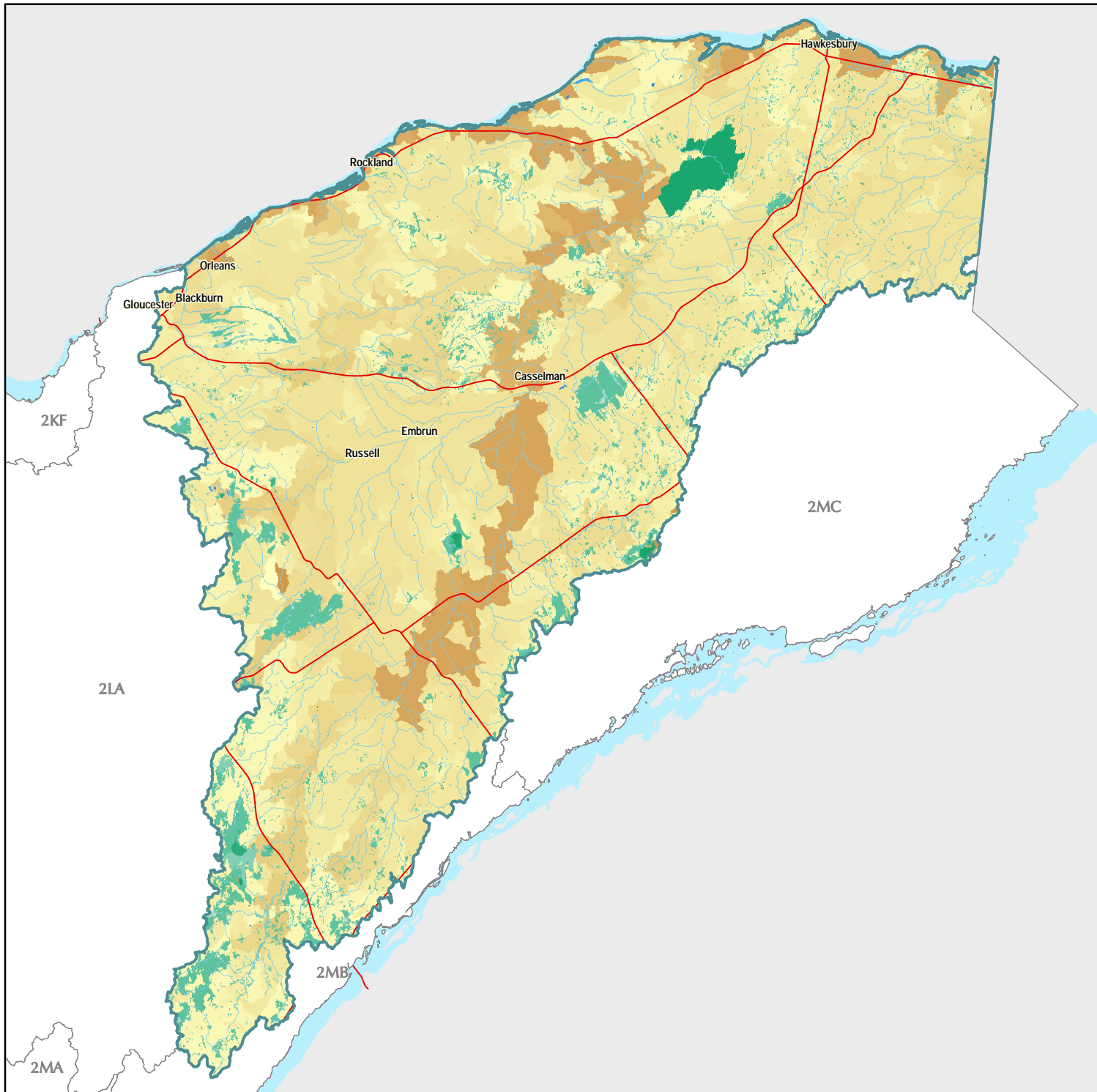
total area. Over half of these lands (13,633 hectares) are provincially significant life science ANSIs. There are approximately 5,831 hectares of protected stream systems, seven hectares of protected lakes and 19,365 hectares of protected wetlands.

Species and Vegetation Community Targets:

Nine species targets occur in watershed 2LB, including Rapids Clubtail (*Gomphus quadricolor*), River Redhorse (*Moxostoma carinatum*), Channel Darter (*Percina copelandi*), Elusive Clubtail (*Stylurus notatus*) and Ebony Boghaunter (*Williamsonia fletcheri*). There are occurrences of Elusive Clubtail (1) and Ebony Boghaunter (2) in conservation lands. Five targeted wetland communities also occur in this watershed.

Conservation Blueprint:

The Conservation Blueprint includes 55,634 hectares of stream systems, 35 hectares of lakes and 20,760 hectares of wetlands. The Conservation Blueprint includes occurrences for all of the primary targets. The portfolio also includes all occurrences of targeted vegetation communities.

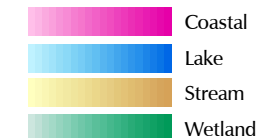


Great Lakes Conservation Blueprint for Biodiversity

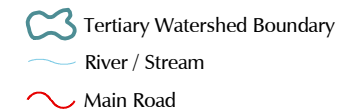
LOWER OTTAWA - SOUTH NATION WATERSHED 2LB



Aquatic Ecological Systems



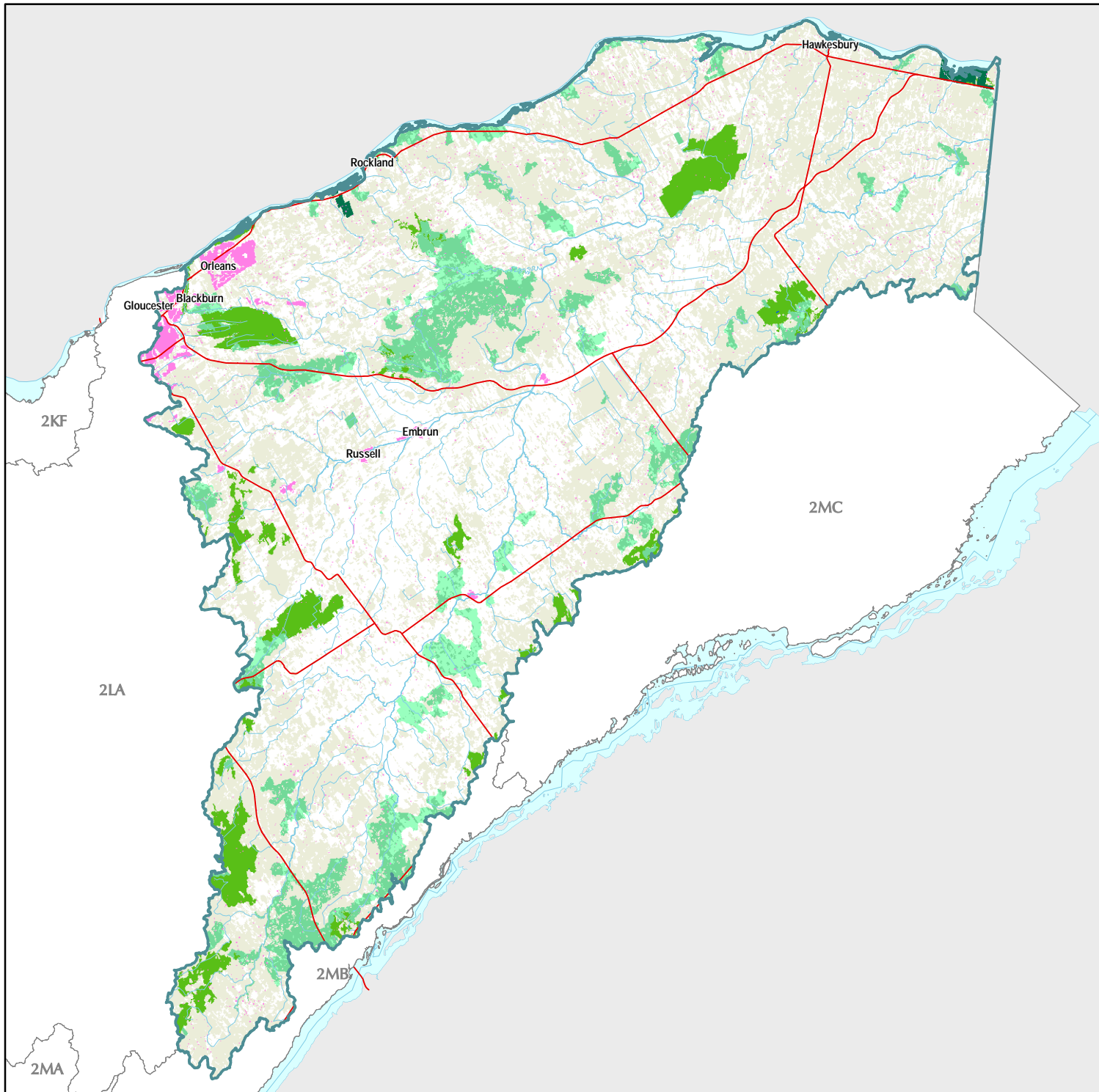
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

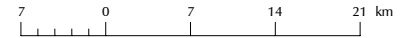
For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

LOWER OTTAWA - SOUTH NATION WATERSHED 2LB



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Documented extant vegetation communities and significant species information for tertiary watershed 2LB

# pops in 2LB	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in PS LS-ANSIs	% of pops in PS LS-ANSIs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species														
1	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	0	1	100	1	100	secondary
1	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	0	1	100	1	100	secondary
1	<i>Moxostoma carinatum</i>	River Redhorse	G4	S2	SC	SC	SAR	0	0	0	0	1	100	3
1	<i>Percina copelandi</i>	Channel Darter	G4	S2	THR	THR	SAR	0	0	0	0	1	100	3
2	<i>Clemmys guttata</i>	Spotted Turtle	G5	S3	END	SC	SAR	1	50	1	50	1	50	secondary
1	<i>Apalone spinifera</i>	Spiny Softshell	G5	S3	THR	THR	SAR	0	0	0	0	0	0	secondary
1	<i>Gomphus quadricolor</i>	Rapids Clubtail	G3G4	S1			GRank	0	0	0	0	1	100	2
4	<i>Stylurus notatus</i>	Elusive Clubtail	G3	S2			GRank	0	0	1	25	3	75	2
2	<i>Williamsonia fletcheri</i>	Ebony Boghaunter	G3G4	S2			GRank	2	100	2	100	2	100	2
Communities														
1	Black Spruce - Tamarack - Leatherleaf Patterned Fen Type		G4	S5			high quality	1	100	1	100	1	100	secondary
1	Black Spruce Coniferous Organic Swamp Type		G5	S5			high quality	1	100	1	100	1	100	secondary
1	Gray Birch Treed Fen Type		G4?	S2S3			SRank	1	100	1	100	1	100	3
1	Leatherleaf - Forb Shrub Fen Type		G5	S5			high quality	1	100	1	100	1	100	secondary
1	Tamarack Treed Fen Type		G4?	S5			high quality	1	100	1	100	1	100	secondary

Ecological systems summary for tertiary watershed 2LB

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stream Systems	476245.06	92.29	5831.44	1.22	55634.00	11.68	40665.44	8.54
Lake Systems	471.13	0.09	7.50	1.59	35.13	7.46	35.13	7.46
Wetland Systems	38356.13	7.43	19635.38	51.19	20760.00	54.12	20760.00	54.12
Tertiary watershed	516052.63	100.00	25729.94	4.99	76685.38	14.86	61716.81	11.96

Ecological systems details for tertiary watershed 2LB

System Integer	# of patches in 2LB	Total area (ha) in 2LB	% of total area in 2LB	# of patches in federal lands	Total area (ha) in federal lands	% of system in federal lands	# of patches in Parks and PAs	Total area (ha) Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																			
Coastal Systems																			
127	1	0.06	0.00			0.00			0.00			0.00			0.00				0.00
Stream Systems																			
202	17	331.19	0.06			0.00			0.00			0.00			0.00	3	63.88	61.81	19.29
203	182	13023.25	2.52			0.00			0.00	37	1441.63	11.07	366	1522.50	11.69	407	2074.88	2033.63	15.93
204	1	0.38	0.00			0.00			0.00			0.00			0.00				0.00
205	282	26692.31	5.17			0.00			0.00	161	555.56	2.08	596	694.69	2.60	693	6361.63	6007.44	23.83
206	202	41718.25	8.08	1	44.19	0.11			0.00	27	53.13	0.13	149	130.75	0.31	156	3532.44	2955.94	8.47
207	4	212.88	0.04			0.00			0.00			0.00			0.00	2	212.19	132.56	99.68
208	20	4026.13	0.78			0.00			0.00	7	218.88	5.44	46	223.25	5.55	55	1406.63	1280.19	34.94
210	134	30176.88	5.85	2	8.00	0.03	7	77.94	0.26	1	5.38	0.02	57	152.63	0.51	81	821.44	701.75	2.72
211	108	12568.19	2.44			0.00			0.00	58	982.81	7.82	198	1001.25	7.97	181	1798.25	1670.19	14.31
212	8	252.44	0.05			0.00			0.00			0.00			0.00	4	122.94	94.50	48.70
213	40	2852.13	0.55			0.00			0.00	37	148.75	5.22	58	153.19	5.37	76	595.94	554.63	20.89
214	127	7212.50	1.40			0.00			0.00	13	271.63	3.77	60	276.56	3.83	65	575.81	557.38	7.98
215	247	42586.94	8.25			0.00			0.00	29	161.31	0.38	179	191.19	0.45	201	5856.75	4187.63	13.75
216	158	34902.50	6.76			0.00			0.00	7	0.81	0.00	141	78.13	0.22	175	1585.69	1175.31	4.54
217	186	49145.44	9.52			0.00			0.00	12	28.63	0.06	30	39.63	0.08	49	1553.50	794.94	3.16
218	171	64075.63	12.42			0.00	3	68.63	0.11	52	38.56	0.06	86	192.56	0.30	105	552.69	509.19	0.86
219	47	27472.38	5.32			0.00			0.00			0.00	9	5.69	0.02	15	370.50	248.00	1.35
220	32	7242.63	1.40	3	63.56	0.88			0.00			0.00	15	67.19	0.93	20	302.69	179.00	4.18
221	32	6260.75	1.21			0.00			0.00	17	351.00	5.61	60	354.88	5.67	72	356.94	356.94	5.70
222	85	17704.56	3.43			0.00			0.00			0.00	10	1.13	0.01	26	5082.00	3428.31	28.70
223	6	150.50	0.03			0.00			0.00			0.00			0.00	6	150.19	32.56	99.79
224	54	11692.56	2.27			0.00			0.00			0.00	86	8.50	0.07	19	4001.25	3479.81	34.22
225	28	3534.69	0.68			0.00			0.00			0.00			0.00	3	776.06	565.13	21.96
226	36	8475.31	1.64			0.00			0.00			0.00	28	2.81	0.03	35	794.06	552.38	9.37
227	5	826.88	0.16			0.00			0.00	4	34.94	4.23	19	36.50	4.41	11	817.56	365.06	98.87
230	36	4335.13	0.84	1	159.44	3.68			0.00			0.00	69	165.44	3.82	39	1839.81	1299.19	42.44
231	26	10124.38	1.96			0.00			0.00	10	21.88	0.22	83	29.38	0.29	115	3238.31	2736.00	31.99
233	3	213.63	0.04			0.00			0.00			0.00			0.00	3	213.63	144.81	100.00
235	3	67.88	0.01			0.00			0.00			0.00	2	0.13	0.18	2	67.81	33.50	99.91
238	1	112.38	0.02			0.00			0.00			0.00	1	5.19	4.62	1	112.38	87.75	100.00
241	3	757.88	0.15			0.00			0.00			0.00			0.00	2	758.06	533.75	100.00
243	35	2007.50	0.39			0.00	3	84.56	4.21			0.00	6	84.75	4.22	15	1111.25	741.25	55.35
244	7	0.56	0.00			0.00			0.00			0.00			0.00	7	0.50	0.25	88.89
246	51	6306.94	1.22			0.00	41	332.63	5.27			0.00	44	333.31	5.28	70	333.44	333.44	5.29
247	99	2073.25	0.40	6	12.19	0.59			0.00	60	52.06	2.51	90	68.25	3.29	158	68.38	68.38	3.30
248	10	1484.56	0.29			0.00			0.00			0.00	31	3.94	0.27	17	1454.81	587.06	98.00

System Integer	# of patches in 2LB	Total area (ha) in 2LB	% of total area in 2LB	# of patches in federal lands	Total area (ha) in federal lands	% of system in federal lands	# of patches in Parks and PAs	Total area (ha) Parks and PAs	% of system in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																			
Stream Systems continued																			
249	4	4.00	0.00			0.00			0.00			0.00			0.00				0.00
250	4	649.56	0.13			0.00			0.00			0.00	13	1.06	0.16	4	649.19	245.50	99.94
251	7	967.81	0.19			0.00			0.00			0.00			0.00	5	858.31	673.63	88.69
252	44	21198.19	4.11			0.00			0.00	9	3.38	0.02	19	5.19	0.02	36	642.81	415.69	3.03
253	26	1987.44	0.39			0.00			0.00	2	0.75	0.04	3	0.81	0.04	11	413.88	136.38	20.82
254	8	10074.38	1.95			0.00			0.00	1	0.38	0.00	1	0.38	0.00	7	4104.94	704.00	40.75
Lake Systems																			
325	88	47.06	0.01			0.00			0.00			0.00	1	0.06	0.13	26	4.69	4.69	9.96
326	156	117.13	0.02			0.00			0.00	2	0.25	0.21	2	0.25	0.21	22	7.00	7.00	5.98
327	11	5.31	0.00			0.00			0.00			0.00	1	0.25	4.71	1	0.25	0.25	4.71
328	195	81.63	0.02			0.00			0.00			0.00			0.00	38	11.25	11.25	13.78
329	20	22.63	0.00			0.00			0.00			0.00			0.00				0.00
330	20	4.94	0.00			0.00			0.00			0.00	3	1.06	21.52	7	1.06	1.06	21.52
331	201	92.94	0.02			0.00	1	0.06	0.07	2	3.06	3.30	4	3.25	3.50	16	7.81	7.81	8.41
332	72	17.94	0.00			0.00			0.00			0.00			0.00				0.00
333	38	13.94	0.00			0.00			0.00	2	1.13	8.07	2	1.13	8.07	2	1.13	1.13	8.07
334	110	41.81	0.01			0.00			0.00			0.00			0.00				0.00
335	69	11.50	0.00			0.00			0.00			0.00			0.00	1	0.31	0.31	2.72
336	59	13.44	0.00			0.00			0.00			0.00	1	1.50	11.16	3	1.63	1.63	12.09
Wetland Systems																			
401	207	335.69	0.07			0.00	11	39.25	11.69	28	75.63	22.53	75	155.94	46.45	102	156.81	156.81	46.71
402	258	1012.75	0.20	2	0.50	0.05	5	33.88	3.34	43	252.69	24.95	103	483.63	47.75	131	542.44	542.44	53.56
404	3	1151.06	0.22			0.00			0.00	1	575.69	50.01	4	724.25	62.92	4	1151.06	1151.06	100.00
405	2716	5886.13	1.14			0.00	14	22.19	0.38	70	162.88	2.77	142	321.25	5.46	187	329.38	329.38	5.60
406	1306	24546.19	4.76			0.00	8	118.88	0.48	54	3450.31	14.06	157	12941.69	52.72	218	13378.25	13378.25	54.50
407	84	161.06	0.03			0.00			0.00	30	51.06	31.70	40	56.75	35.23	41	58.13	58.13	36.09
408	62	202.69	0.04			0.00			0.00	21	56.31	27.78	24	56.63	27.94	30	104.56	104.56	51.59
409	7	226.88	0.04			0.00			0.00	1	175.63	77.41	6	205.00	90.36	6	205.69	205.69	90.66
410	7	4833.69	0.94			0.00			0.00	2	4434.19	91.74	16	4690.25	97.03	7	4833.69	4833.69	100.00
Non-Target Ecological Systems																			
Unclassified Ecological Systems																			
2	14	742.38	0.14			0.00	15	16.44	2.21			0.00	7	0.63	0.08	9	0.63	0.63	0.08
3	4	0.88	0.00			0.00			0.00			0.00			0.00				0.00
5	186	225.94	0.04	4	8.88	3.93			0.00	25	11.69	5.17	91	128.50	56.87	147	128.50	128.50	56.87
6	133	754.31	0.15			0.00	1	9.50	1.26	1	11.44	1.52	7	127.13	16.85	11	127.75	127.75	16.94

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and **Additional Designated Natural Heritage Areas** which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Cataraqui

Tertiary Watershed 2MA

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area:	213,210 hectares (526,841 acres)
Land Ownership:	Private Land ~ 90% Public Land ~ 10%
Planning Authority:	52% Leeds and Grenville County 48% Frontenac County

General Description:

Tertiary watershed 2MA drains into eastern Lake Ontario. There are approximately 7,606 hectares of coastal areas, 22,818 hectares of stream systems, 15,783 hectares of lakes and 19,389 hectares of wetlands. Wolfe Island, Howe Island and Simcoe Island occur in this watershed. Many large lakes, including Charleston Lake, as well as the Cataraqui River and part of the Rideau Canal are present. Dense deciduous forest dominates the natural cover. Coniferous, mixed and sparse deciduous forests also occur. Wetland habitats include marsh, deciduous swamp, coniferous swamp, and open fen. A large patch of open fen occurs in the southeast portion of the watershed.

Land Use:

Agriculture is the dominant land use in the watershed; cropland covers almost one-quarter of the area. Scattered pastures and a few developed areas are also present. There are no large cities in the watershed, but there are a number of smaller communities including Athens, Barriefield and Seeleys Bay.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2MA is 19,389 hectares, constituting approximately 9.1% of the watershed's total area. Over one third of these lands (7,260 ha) are



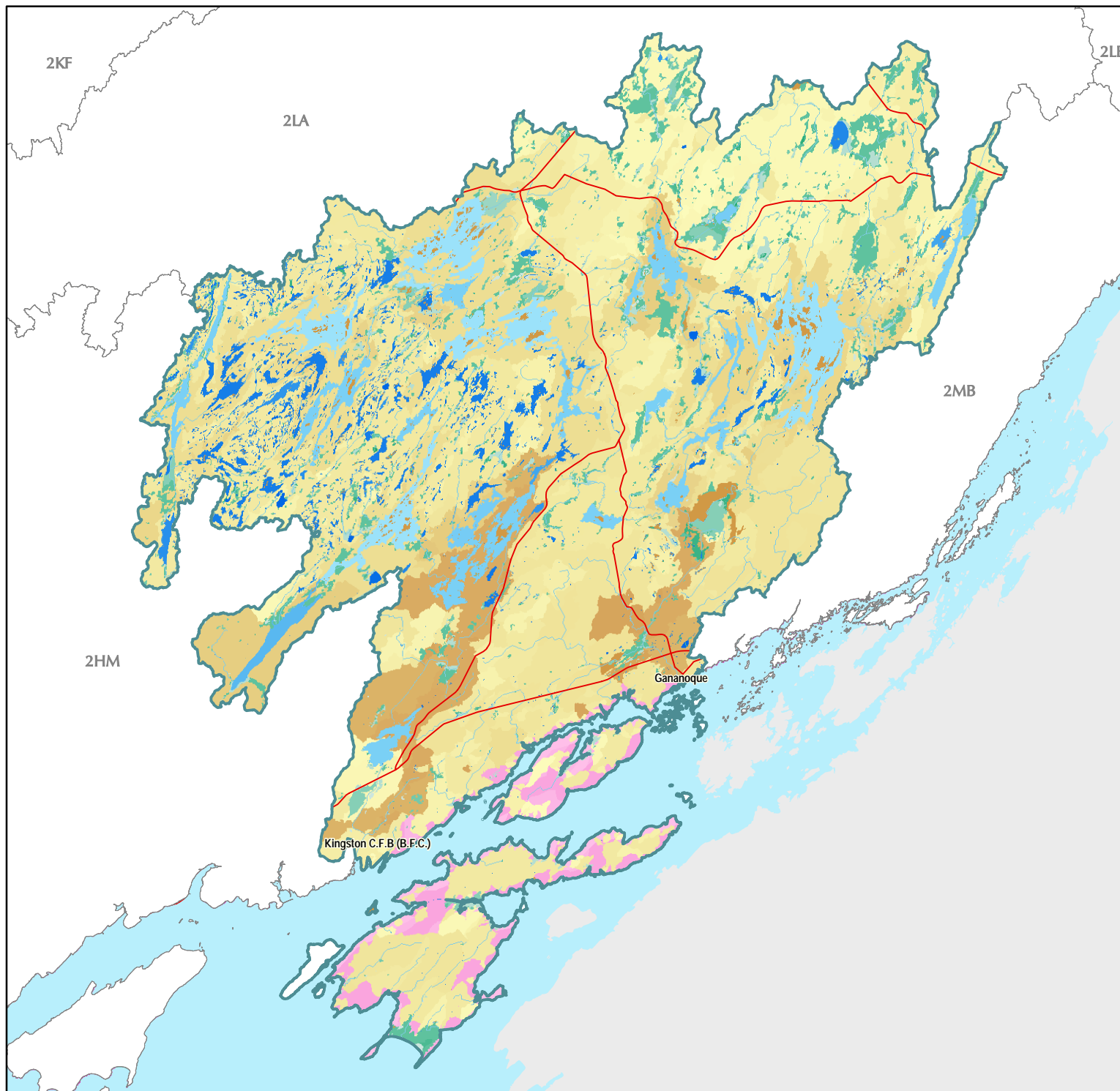
provincially protected areas. Another third (5,732 ha) are provincially significant life science ANSIs, of which 1,941 hectares coincide with provincial parks. There are approximately 99 hectares of protected coastal areas 8,015 hectares of protected stream systems, 1,893 hectares of protected lakes and 8,538 hectares of protected wetlands.

Species and Vegetation Community Targets:

Nine species targets occur in watershed 2MA. The primary targets are Ram's-head Lady's-slipper (*Cypripedium arietinum*) and Pugnose Shiner (*Notropis anogenus*). There is one occurrence of Pugnose Shiner in conservation land. Graminoid Coastal Meadow Marsh, which coincides with a conserved area, is the only rare vegetation community that has been documented in this watershed.

Conservation Blueprint:

The Conservation Blueprint includes 163 hectares of coastal areas, 33,193 hectares of stream systems, 8,755 hectares of lakes and 9,268 hectares of wetlands. The Conservation Blueprint also includes the only occurrence of Ram's-head Lady's-slipper and Graminoid Coastal Meadow Marsh.

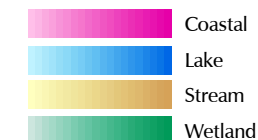


Great Lakes Conservation Blueprint for Biodiversity

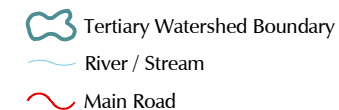
CATARAQUI WATERSHED 2MA



Aquatic Ecological Systems



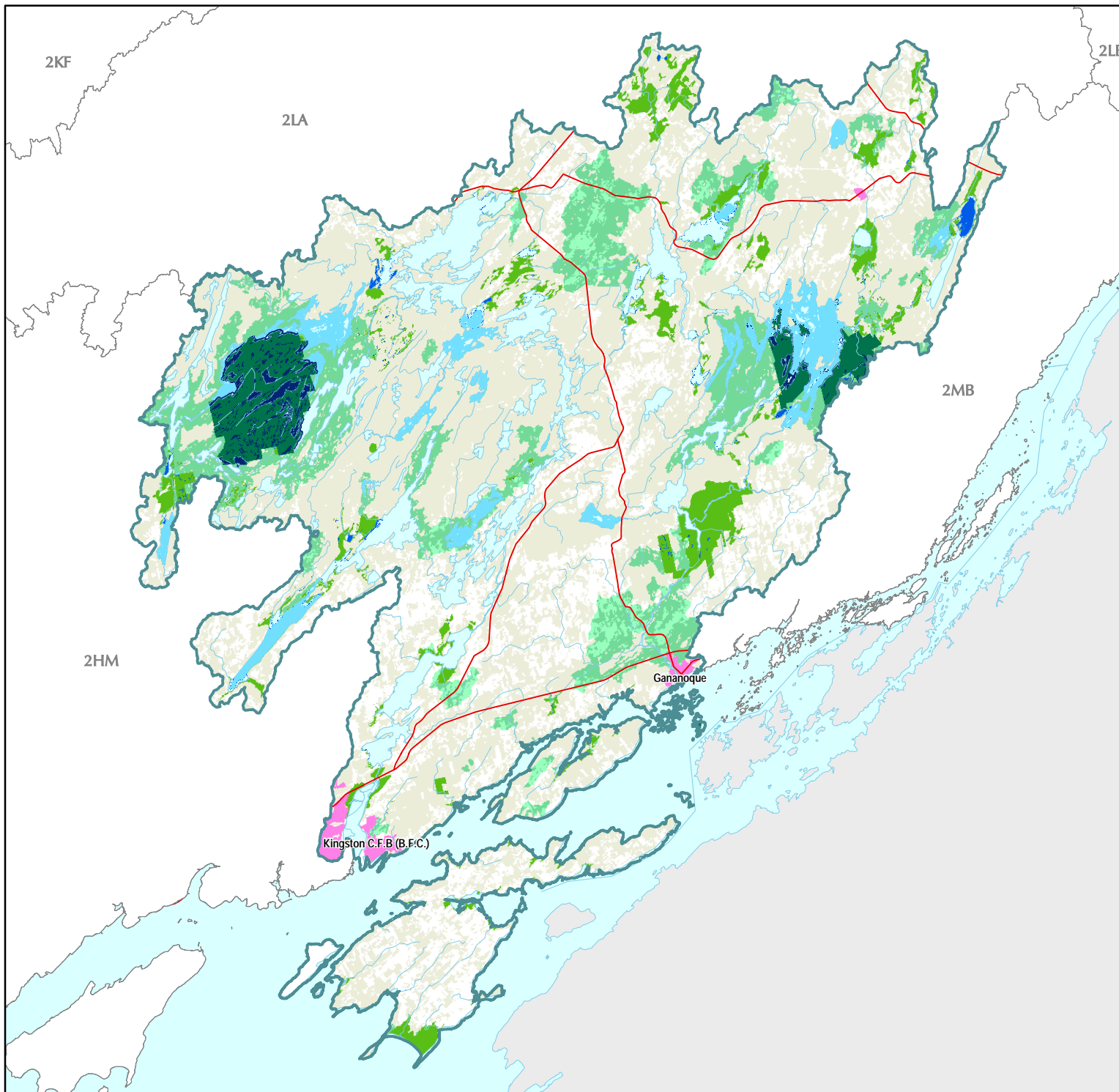
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

CATARAQUI WATERSHED 2MA



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Documented extant vegetation communities and significant species information for tertiary watershed 2MA

# pops in 2MA	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in Parks and PAs	% of pops in Parks and PAs	# of pops in PS LS-ANSIs	% of pops in PS LS-ANSIs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species																
3	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	0	1	33	2	67	2	67	secondary
1	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S4B,SZN	NAR	END-R	SAR	0	0	0	0	0	0	0	0	secondary
6	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	0	1	17	2	33	2	33	secondary
2	<i>Seiurus motacilla</i>	Louisiana Waterthrush	G5	S3B,SZN	SC	SC	SAR	1	50	1	50	1	50	1	50	secondary
1	<i>Notropis anogenus</i>	Pugnose Shiner	G3	S2	END	END	GRank SAR	0	0	0	0	1	100	1	100	4
12	<i>Graptemys geographica</i>	Northern Map Turtle	G5	S3	SC	SC	SAR	6	50	1	8	6	50	7	58	secondary
9	<i>Sternotherus odoratus</i>	Stinkpot	G5	S3	THR	THR	SAR	2	22	0	0	2	22	3	33	secondary
1	<i>Apalone spinifera</i>	Spiny Softshell	G5	S3	THR	THR	SAR	0	0	0	0	0	0	0	0	secondary
1	<i>Cypripedium arietinum</i>	Ram's-head Lady's-slipper	G3	S3			GRank	0	0	0	0	0	0	1	100	2
Communities																
1	Graminoid Coastal Meadow Marsh Type		G2?	S2			GRank	0	0	1	100	1	100	1	100	all viable

Ecological systems summary for tertiary watershed 2MA

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	7606.56	3.57	99.06	1.30	163.25	2.15	163.25	2.15
Stream Systems	163742.19	76.80	8015.44	4.90	33193.94	20.27	29028.88	17.73
Lake Systems	22818.25	10.70	1893.50	8.30	8755.38	38.37	8755.38	38.37
Wetland Systems	15783.31	7.40	8538.63	54.10	9286.75	58.84	9286.75	58.84
Tertiary watershed	213210.44	100.00	19389.81	9.09	52242.56	24.50	48077.50	22.55

Ecological systems details for tertiary watershed 2MA

System Integer	# of patches in 2MA	Total area (ha) in 2MA	% of total area in 2MA	# of patches in federal lands	Total area (ha) in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																		
Coastal Systems																		
101	20	121.00	0.06											0.00	8	9.38	9.38	7.75
102	1	0.94	0.00											0.00				0.00
104	79	156.50	0.07					2	6.56			4	6.69	4.27	7	10.75	10.75	6.87
105	63	287.44	0.13					10	0.75			19	1.63	0.57	24	8.69	8.69	3.02
106	4	7.13	0.00									6	0.50	7.02	3	2.13	2.13	29.82
108	95	252.44	0.12					7	15.75			11	16.00	6.34	17	27.94	27.94	11.07
113	130	121.13	0.06					3	1.56			52	8.69	7.17	63	11.88	11.88	9.80
116	25	28.06	0.01									8	0.75	2.67	13	4.44	4.44	15.81
125	141	4305.56	2.02					2	30.69			68	37.13	0.86	77	51.50	51.50	1.20
127	48	730.88	0.34					6	17.69			17	18.69	2.56	25	27.56	27.56	3.77
199	92	1548.50	0.73					2	4.63			28	8.50	0.55	30	8.50	8.50	0.55
Stream Systems																		
201	8	905.81	0.42					1	0.38			2	0.44	0.05	5	825.19	523.00	91.10
202	1	34.19	0.02											0.00				0.00
203	60	12773.81	5.99					2	23.75	7	67.00	242	114.75	0.90	278	515.75	474.13	4.04
204	7	99.81	0.05									1	0.06	0.06	4	32.13	32.06	32.19
205	55	4309.25	2.02					10	425.94	6	52.00	116	456.06	10.58	87	1549.00	1380.13	35.95
206	22	4174.13	1.96									13	1.69	0.04	21	1609.81	1233.31	38.57
207	2	31.88	0.01											0.00				0.00
208	66	7073.75	3.32					2	0.19	1	74.75	58	82.94	1.17	80	425.75	416.63	6.02
209	69	3267.06	1.53			6	118.31	6	37.94	1	91.44	18	214.75	6.57	39	689.44	682.38	21.10
210	19	5225.63	2.45											0.00	7	2705.50	1959.69	51.77
211	43	5976.00	2.80					2	3.75	4	52.69	104	121.63	2.04	130	134.06	134.06	2.24
212	16	628.25	0.29									11	0.88	0.14	7	195.25	191.69	31.08
213	193	26511.88	12.43			15	1796.38	42	619.63	9	215.56	329	2128.06	8.03	414	2588.56	2588.56	9.76
214	155	17055.88	8.00			17	555.88	38	291.19	11	117.56	423	829.88	4.87	471	2117.88	2096.88	12.42
215	8	1195.13	0.56									9	1.19	0.10	4	186.13	136.13	15.57
216	9	1606.06	0.75									1	0.06	0.00	7	480.75	346.19	29.93
217	66	15753.69	7.39			12	11.06	1	0.63			34	14.19	0.09	46	250.69	200.38	1.59
218	22	5582.06	2.62					1	8.94	1	27.56	32	39.44	0.71	35	70.25	70.25	1.26
219	7	824.06	0.39											0.00	5	823.50	562.50	99.93
220	3	223.75	0.10					1	0.50			1	0.50	0.22	5	223.75	123.06	100.00

System Integer	# of patches in ZMA	Total area (ha) in ZMA	% of total area in ZMA	# of patches in federal lands	Total area (ha) in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																		
Stream Systems continued																		
221	123	23228.88	10.89			21	1777.94	66	962.81	2	50.63	436	2226.06	9.58	461	8268.25	8199.19	35.59
224	1	44.63	0.02											0.00				0.00
226	55	5899.31	2.77			14	853.44	17	67.63	3	39.94	118	979.88	16.61	147	3110.56	3106.19	52.73
227	44	2121.75	1.00			10	337.88	9	28.94			43	346.31	16.32	29	639.38	639.38	30.13
228	7	127.38	0.06			1	54.50					4	55.00	43.18	4	99.19	99.19	77.87
231	42	5309.75	2.49					1	11.44			131	23.00	0.43	140	232.00	227.63	4.37
233	3	614.13	0.29											0.00	8	614.13	488.06	100.00
235	2	128.13	0.06											0.00	1	128.00	87.19	99.90
237	1	0.44	0.00					1	0.44			1	0.44	100.00	1	0.44	0.44	100.00
242	2	0.50	0.00											0.00				0.00
244	3	1128.44	0.53									5	0.63	0.06	3	1128.38	691.06	99.99
247	18	3769.38	1.77					10	131.88	2	49.94	89	151.44	4.02	101	583.19	550.25	15.47
248	5	589.56	0.28									13	1.31	0.22	5	501.50	180.63	85.06
250	23	6088.63	2.86					10	192.56	2	27.00	65	222.94	3.66	85	1251.13	930.06	20.55
251	1	19.13	0.01									3	0.19	0.98	3	0.19	0.19	0.98
253	9	1199.25	0.56									13	1.75	0.15	4	1002.63	484.81	83.60
254	6	219.56	0.10											0.00	8	211.63	193.63	96.38
Lake Systems																		
309	150	7821.81	3.67			154	224.94	12	47.81			254	297.38	3.80	148	4230.69	4230.69	54.09
315	81	6670.69	3.13			2	31.88	1	16.75	5	11.81	53	250.00	3.75	67	1013.19	1013.19	15.19
317	74	574.00	0.27									76	6.63	1.15	69	552.81	552.81	96.31
322	6	643.06	0.30									56	5.00	0.78	8	643.00	643.00	99.99
325	17	6.44	0.00					6	3.38	3	2.94	6	3.38	52.43	11	3.38	3.38	52.43
326	96	277.00	0.13					2	0.13	5	4.13	12	4.81	1.74	27	141.63	141.63	51.13
327	6	1.44	0.00											0.00				0.00
328	37	20.44	0.01									2	12.63	61.77	2	12.63	12.63	61.77
329	297	496.06	0.23			78	227.50	48	37.13	1	0.06	89	228.38	46.04	174	228.38	228.38	46.04
330	59	243.69	0.11					3	4.25			10	7.81	3.21	17	215.81	215.81	88.56
331	66	208.44	0.10					1	0.06			2	0.13	0.06	7	177.38	177.38	85.10
332	19	9.94	0.00					1	2.25			1	2.25	22.64	1	2.25	2.25	22.64
333	1869	5270.00	2.47			284	832.00	117	375.06	49	21.44	545	982.94	18.65	881	1440.88	1440.88	27.34
334	196	97.19	0.05			16	5.44	6	1.75			21	7.31	7.52	22	7.31	7.31	7.52

System Integer	# of patches in 2MA	Total area (ha) in 2MA	% of total area in 2MA	# of patches in federal lands	Total area (ha) in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																		
Lake Systems continued																		
335	13	64.06	0.03							1	1.31	2	1.56	2.44	5	2.75	2.75	4.29
336	595	413.81	0.19			71	60.13	26	48.38	4	1.00	107	83.31	20.13	129	83.31	83.31	20.13
Wetland Systems																		
401	314	583.19	0.27			5	12.50	13	57.75	1	4.94	160	306.69	52.59	205	308.50	308.50	52.90
402	395	2691.88	1.26			26	42.50	16	108.31	2	14.81	292	1675.94	62.26	428	1698.38	1698.38	63.09
403	1	246.31	0.12									11	169.31	68.74	2	246.31	246.31	100.00
404	10	1332.81	0.63					4	640.63	7	161.88	9	1166.25	87.50	16	1311.38	1311.38	98.39
405	865	1697.69	0.80			27	28.88	35	66.81	8	6.75	185	381.44	22.47	218	382.50	382.50	22.53
406	798	8427.31	3.95			47	111.44	45	715.56	15	25.38	292	4536.56	53.83	392	5026.81	5026.81	59.65
407	166	290.00	0.14			3	5.50	22	50.00	11	11.88	57	70.81	24.42	69	77.56	77.56	26.75
408	122	484.06	0.23			1	0.81	7	178.00	4	9.94	25	211.69	43.73	30	215.38	215.38	44.49
409	6	21.31	0.01									5	11.63	54.55	5	11.63	11.63	54.55
410	2	8.75	0.00					1	5.00			2	8.31	95.00	2	8.31	8.31	95.00
Non-Target Ecological Systems																		
Coastal Systems																		
121	3	5.69	0.00											0.00				0.00
122	2	3.94	0.00											0.00				0.00
123	1	18.25	0.01											0.00				0.00
124	16	19.13	0.01									4	0.50	2.61	6	0.50	0.50	2.61
Unclassified Ecological Systems																		
2	5	1.31	0.00											0.00				0.00
3	1	0.19	0.00											0.00				0.00
5	285	966.69	0.45	16	107.75			1	39.88			74	114.94	11.89	77	114.94	114.94	11.89
6	1607	2293.44	1.08			170	171.56	56	447.88	15	19.13	250	728.25	31.75	330	728.31	728.31	31.76

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Upper St. Lawrence – Thousand Islands

Tertiary Watershed 2MB

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area:	64,827 hectares (160,187 acres)
Land Ownership:	Public Land ~ 2% Private Land ~ 95% National Parks ~ 3%
Planning Authority:	89% Leeds and Grenville County 11% Stormont Dundas and Glengarry County

General Description:

Tertiary watershed 2MB drains into the eastern shore of Lake Ontario and the St. Lawrence River. There are approximately 5,921 hectares of coastal areas, 51,425 hectares of stream systems, 378 hectares of lakes and 6,148 hectares of wetlands. This very long and narrow watershed follows the St. Lawrence River from Lake Ontario to Mallorytown. The watershed contains the Thousand Islands and St. Lawrence Islands regions of the St. Lawrence River, and as a result has many small islands within its boundaries. The watershed is dominated by dense deciduous forest. Some sparse deciduous forest, coniferous forest and mixed forest can also be found. Wetland habitats include marsh, deciduous swamp and coniferous swamp.

Land Use:

There is little converted land in this watershed. Some scattered agricultural fields and patches of developed land are present including Brockville, Gananoque and Prescott.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2MB is 6,057 hectares, constituting approximately 9.3% of the watershed's total area. Over one third of these lands (2,422 hectares) are provincially significant life science ANSIs. There are approximately 750 hectares of



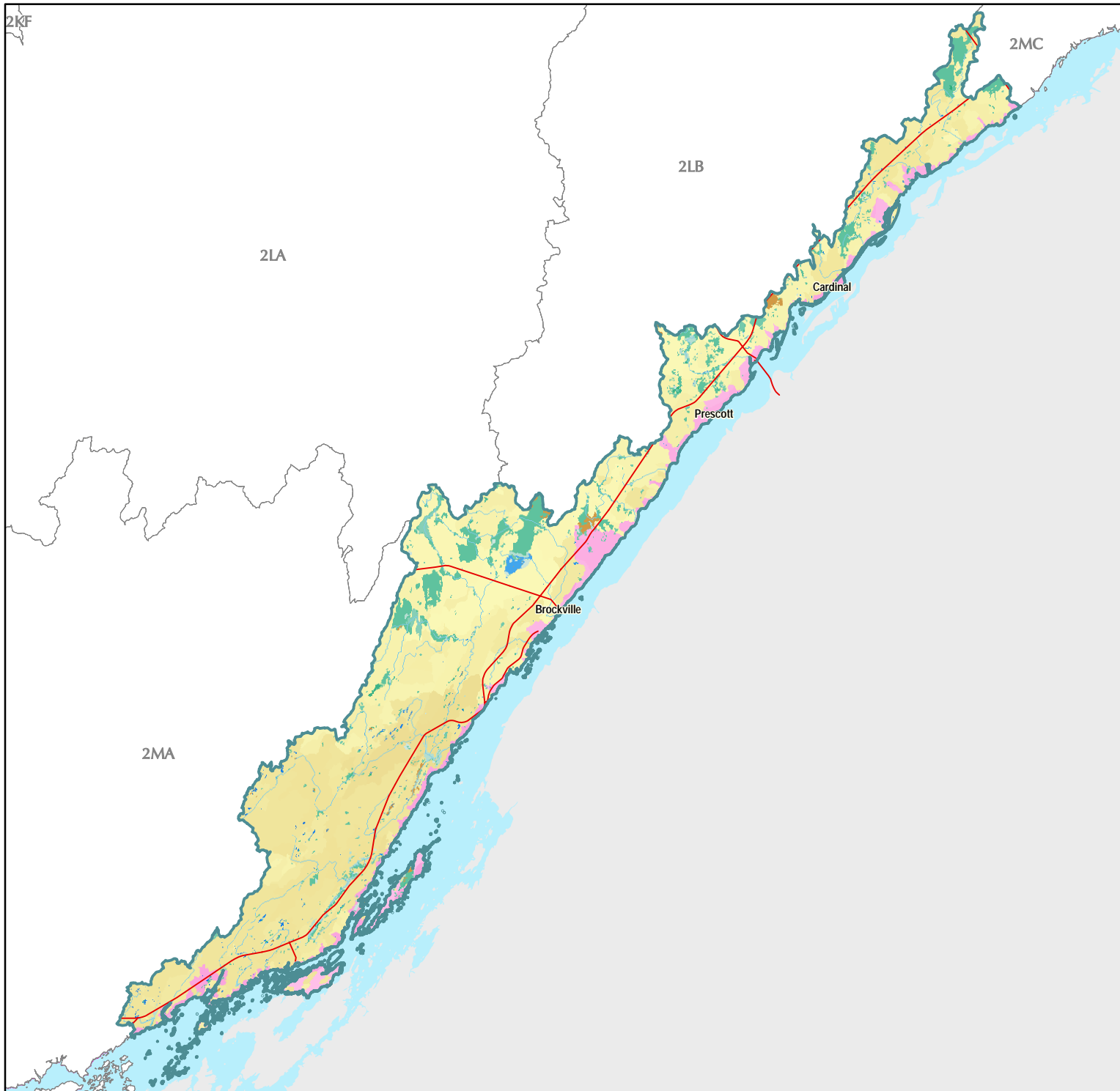
protected coastal areas 2,129 hectares of protected stream systems, 170 hectares of protected lakes and 2,680 hectares of protected wetlands.

Species and Vegetation Community Targets:

Nine species targets occur in watershed 2MB. Primary targets include Lake Sturgeon (*Acipenser fulvescens*) and Pugnose Shiner (*Notropis anogenus*). Secondary targets include Black Tern (*Chlidonias Niger*), Spotted Turtle (*Clemmys guttata*), Cutlips Minnow (*Exoglossum maxillingua*), Northern Map Turtle (*Graptemys geographica*), Bald Eagle (*Haliaeetus leucocephalus*), Least Bittern (*Ixobrychus exilis*) and Stinkpot (*Sternotherus odoratus*). There are occurrences of the primary targets Lake Sturgeon (1) and Pugnose Shiner (1) in conservation lands. No rare vegetation communities have been documented in this watershed.

Conservation Blueprint:

The Conservation Blueprint includes 1,776 hectares of coastal areas, 13,131 hectares of stream systems, 175 hectares of lakes and 2,961 hectares of wetlands. The Conservation Blueprint also includes both of the known occurrences for the primary targets Lake Sturgeon (1) and Pugnose Shiner (1), which are found within 2MB conservation lands.

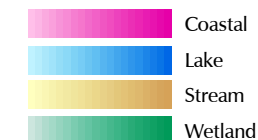


Great Lakes Conservation Blueprint for Biodiversity

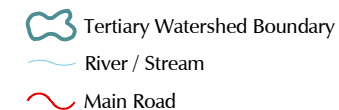
UPPER ST. LAWRENCE - THOUSAND ISLANDS WATERSHED 2MB



Aquatic Ecological Systems



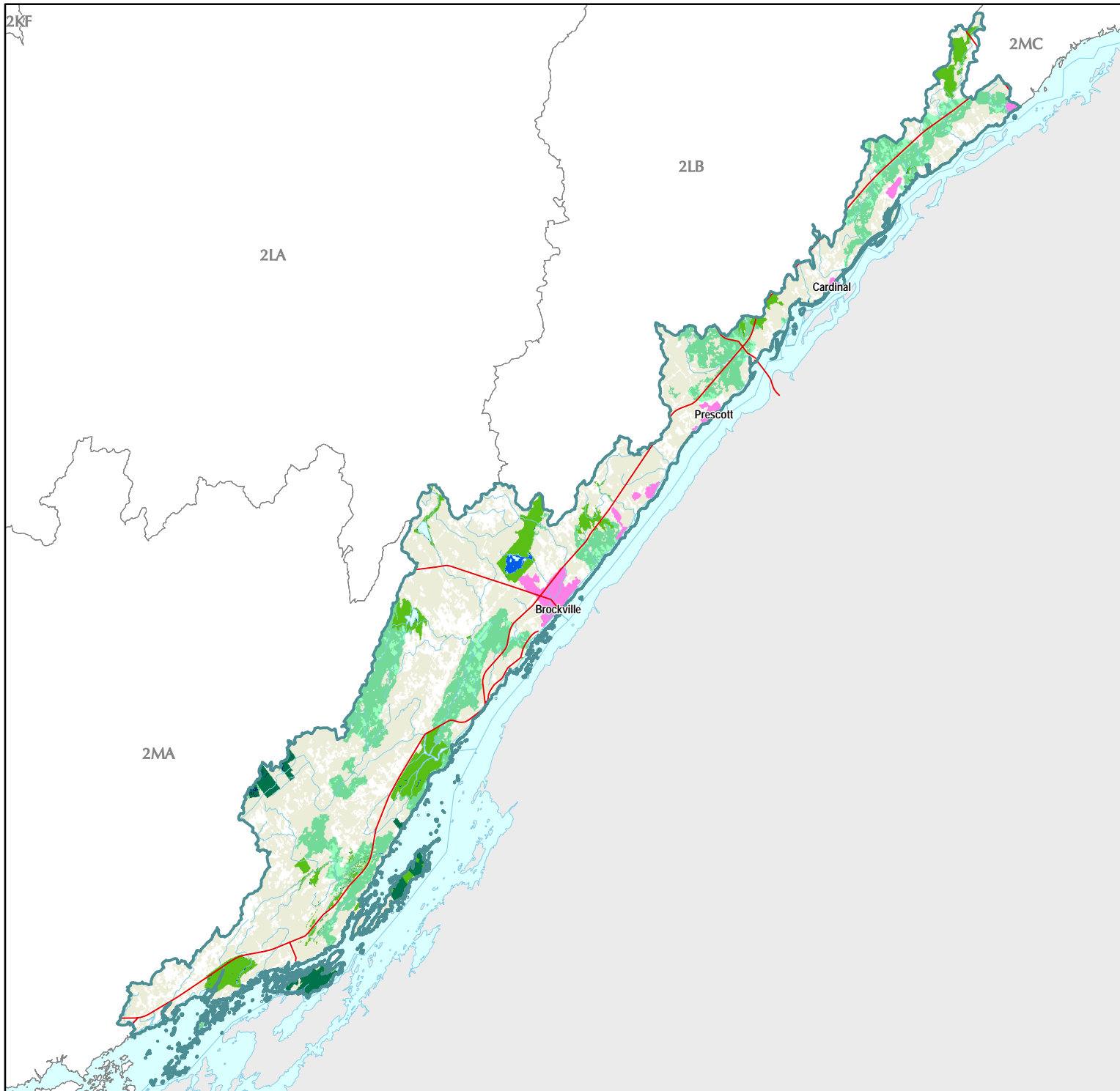
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

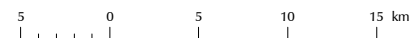
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Great Lakes Conservation Blueprint for Biodiversity






UPPER ST. LAWRENCE - THOUSAND ISLANDS WATERSHED 2MB



Aquatic Conservation Blueprint

-  Parks and Protected Areas
-  Additional Designated Natural Heritage Areas
-  Priority Stewardship Areas - Natural
-  Priority Stewardship Areas - Non-Natural

Other Information

-  Tertiary Watershed Boundary
-  Lake / Water Course
-  Main Road
-  Urban Area
-  Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Documented extant significant species information for tertiary watershed 2MB

# pops in 2MB	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federal lands	% of pops in PS LS-ANSIs	% of pops in CAs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species															
3	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	33	67	33	3	100	3	100	secondary
1	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S4B,SZN	NAR	END-R	SAR	0	0	0	0	0	0	0	secondary
3	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	0	33	1	33	1	33	secondary
1	<i>Acipenser fulvescens</i>	Lake Sturgeon	G3G4	S3	SC	NAR	GRank SAR	0	100	0	1	100	1	100	2
1	<i>Exoglossum maxillingua</i>	Cutlips Minnow	G5	S1S2	NAR	THR	SAR	0	0	0	0	0	0	0	secondary
1	<i>Notropis anogenus</i>	Pugnose Shiner	G3	S2	END	END	GRank SAR	100	0	0	1	100	1	100	4
1	<i>Clemmys guttata</i>	Spotted Turtle	G5	S3	END	SC	SAR	0	0	100	1	100	1	100	secondary
7	<i>Graptemys geographica</i>	Northern Map Turtle	G5	S3	SC	SC	SAR	71	14	0	5	71	5	71	secondary
2	<i>Sternotherus odoratus</i>	Stinkpot	G5	S3	THR	THR	SAR	100	0	0	2	100	2	100	secondary

Ecological systems summary for tertiary watershed 2MB

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	5921.13	9.13	750.25	12.67	1776.19	30.00	1523.00	25.72
Stream Systems	51425.44	79.33	2129.25	4.14	13131.88	25.54	11006.50	21.40
Lake Systems	378.94	0.58	170.25	44.93	175.13	46.21	175.13	46.21
Wetland Systems	6148.13	9.48	2680.81	43.60	2961.69	48.17	2961.69	48.17
Tertiary watershed	64827.94	100.00	6057.13	9.34	18371.44	28.34	15992.94	24.67

Ecological systems details for tertiary watershed 2MB

System Integer	# of patches in 2MB	Total area (ha) in 2MB	% of total area in 2MB	# of patches in federal lands	Total area (ha) in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems																		
Coastal Systems																		
101	14	91.69	0.14	3	3.94			3	4.69			4	7.81	8.52	9	40.38	40.38	44.04
104	71	190.63	0.29	20	19.63			17	14.63			30	22.38	11.74	34	23.44	23.44	12.30
105	34	163.94	0.25									23	2.56	1.56	38	16.81	16.81	10.26
106	2	2.69	0.00											0.00	2	2.69	2.69	100.00
107	1	7.19	0.01											0.00	2	7.25	7.25	100.00
108	61	116.25	0.18	5	6.63			6	3.63			24	8.88	7.63	35	15.13	15.13	13.01

System Integer	# of patches in 2MB	Total area (ha) in 2MB	% of total area in 2MB	# of patches in federal lands	Total area (ha) in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																		
Coastal Systems continued																		
113	60	94.75	0.15	9	6.06			12	21.44			60	30.81	32.52	82	30.81	30.81	32.52
114	2	0.88	0.00											0.00	1	0.63	0.63	71.43
116	50	35.75	0.06	20	13.81			23	13.13			32	17.06	47.73	38	17.06	17.06	47.73
125	90	1600.69	2.47	5	126.06			20	268.00			45	293.50	18.34	63	475.00	430.25	29.67
126	59	1751.44	2.70									20	4.06	0.23	14	770.81	563.56	44.01
127	39	1116.69	1.72					1	6.44			10	7.50	0.67	21	20.50	19.31	1.84
199	26	535.13	0.83	13	329.81			7	316.69			13	353.00	65.97	16	353.00	353.00	65.97
Stream Systems																		
201	1	7.75	0.01											0.00				0.00
203	48	5364.94	8.28					1	3.31	12	209.56	71	219.06	4.08	73	1145.75	966.88	21.36
205	63	4245.63	6.55							2	5.00	90	14.88	0.35	107	15.38	15.38	0.36
206	26	5316.25	8.20					1	3.56			20	5.88	0.11	33	586.75	487.44	11.04
207	3	120.25	0.19									7	0.75	0.62	3	120.25	69.88	100.00
208	46	4431.81	6.84							6	31.13	21	32.44	0.73	19	1705.88	1486.56	38.49
209	11	208.13	0.32	1	19.63			2	39.25			2	39.25	18.86	3	57.38	57.38	27.57
210	23	4095.25	6.32											0.00	10	865.81	734.13	21.14
211	38	2561.56	3.95									13	1.25	0.05	27	2031.38	1474.88	79.30
212	16	347.38	0.54	1	7.06			1	15.44			5	22.69	6.53	7	77.63	76.75	22.35
213	33	3052.69	4.71	1	28.31	5	95.75	6	167.25	2	21.06	54	288.44	9.45	71	744.69	738.88	24.39
214	27	461.50	0.71	6	8.06			9	10.75			47	15.00	3.25	54	15.00	15.00	3.25
215	15	1181.50	1.82									24	3.06	0.26	36	419.50	328.63	35.51
216	15	2042.81	3.15									17	5.81	0.28	12	1330.69	962.56	65.14
217	39	10317.38	15.92	3	72.13	6	298.56	4	568.88	1	0.25	61	902.69	8.75	71	1432.75	1407.06	13.89
218	40	3916.31	6.04			2	0.63	10	145.81	2	55.19	52	256.81	6.56	77	298.25	297.25	7.62
219	8	793.06	1.22									90	11.63	1.47	12	777.38	521.38	98.02
220	7	563.69	0.87											0.00	5	281.00	264.25	49.85
221	7	970.13	1.50			1	0.06	3	85.81			4	85.88	8.85	6	969.81	851.75	99.97
222	7	1365.88	2.11					8	186.69			8	186.69	13.67	6	219.19	213.06	16.05
226	4	0.25	0.00											0.00	2	0.13	0.13	50.00
227	1	37.06	0.06					1	37.06			1	37.06	100.00	1	37.06	37.06	100.00
244	4	0.25	0.00											0.00	4	0.25	0.25	100.00
Lake Systems																		
325	9	3.81	0.01									3	0.25	6.56	3	0.25	0.25	6.56

System Integer	# of patches in 2MB	Total area (ha) in 2MB	% of total area in 2MB	# of patches in federal lands	Total area (ha) in federal lands	# of patches in Parks and PAs	Total area (ha) in Parks and PAs	# of patches in ANSIs	Total area (ha) in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% of system in the Blueprint
Target Ecological Systems continued																		
Lake Systems continued																		
326	31	147.13	0.23							9	140.44	10	140.50	95.50	19	142.50	142.50	96.86
327	10	3.69	0.01											0.00				0.00
328	26	9.00	0.01							2	1.44	3	1.56	17.36	5	1.56	1.56	17.36
329	15	9.19	0.01									2	0.13	1.36	2	0.13	0.13	1.36
330	10	3.81	0.01									2	0.44	11.48	3	0.44	0.44	11.48
331	32	11.63	0.02									4	0.25	2.15	4	0.25	0.25	2.15
332	38	18.06	0.03									1	1.38	7.61	1	1.38	1.38	7.61
333	196	124.06	0.19			23	16.56	17	4.13			56	22.44	18.09	89	25.31	25.31	20.40
334	26	10.56	0.02			1	0.38					1	0.38	3.55	1	0.38	0.38	3.55
335	8	4.38	0.01											0.00				0.00
336	116	33.63	0.05					15	2.94			15	2.94	8.74	18	2.94	2.94	8.74
Wetland Systems																		
401	147	280.94	0.43	12	9.13			24	25.94	9	48.25	113	153.44	54.62	162	153.88	153.88	54.77
402	117	648.44	1.00	23	44.56			26	227.00	3	38.50	86	423.50	65.31	132	424.06	424.06	65.40
404	2	233.81	0.36							2	74.25	2	225.88	96.61	2	233.81	233.81	100.00
405	385	839.63	1.30	6	11.38	1	1.13	44	59.50	10	20.19	96	223.19	26.58	121	254.19	254.25	30.27
406	247	4002.25	6.17	2	20.44	2	1.31	19	82.44	8	129.44	93	1631.88	40.77	127	1838.25	1838.25	45.93
407	46	49.50	0.08	6	7.69			9	11.75	1	1.56	19	14.00	28.28	21	14.00	14.00	28.28
408	29	87.75	0.14	1	0.88	1	1.06	3	1.94			6	3.13	3.56	14	37.69	37.69	42.95
409	1	5.81	0.01									1	5.81	100.00	1	5.81	5.81	100.00
Non-Target Ecological Systems																		
Coastal Systems																		
121	16	61.25	0.09									3	0.25	0.41	4	0.25	0.25	0.41
122	4	20.19	0.03									4	0.81	4.02	10	0.81	0.81	4.02
124	78	132.00	0.20	3	1.25			1	0.38			8	1.63	1.23	8	1.63	1.63	1.23
Unclassified Ecological Systems																		
2	5	24.00	0.04											0.00				0.00
5	551	564.31	0.87	15	60.50			22	25.25			107	80.38	14.24	132	80.38	80.38	14.24
6	144	390.00	0.60	5	13.06	8	4.50	13	68.50	23	2.19	66	246.19	63.13	89	246.19	246.19	63.13

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Upper St. Lawrence – Raisin

Tertiary Watershed 2MC

Great Lakes Conservation Blueprint for Aquatic Biodiversity

Area: 154,349 hectares (381,396 acres)

Land Ownership: Public Land ~ 2%
Private Land ~ 95%
First Nations Lands ~ 3%

Planning Authority: 100% Stormont Dundas and Glengarry County

General Description:

Tertiary watershed 2MC drains into the St. Lawrence River. There are approximately 2,739 hectares of coastal areas, 127,774 hectares of stream systems, 650 hectares of lakes and 20,753 hectares of wetlands. Many small islands occurring in the St. Lawrence River are included in the watershed boundary. Raisin River and Lake St. Francis are also present. Natural cover in the region is dominated by dense deciduous forest. Some sparse deciduous forest, dense coniferous forest and mixed forest can also be found. Wetland habitats include marsh, deciduous swamp and coniferous swamp.

Land Use:

There is little converted land in this small watershed. Some scattered agricultural fields and areas of developed land are present. The city of Cornwall is the largest settlement within watershed 2MC. Many smaller communities are also present, including Lancaster, Alexandria, Ingleside and Morrisburg.

Protection and Conservation:

The combined area of protected and conservation lands in tertiary watershed 2MC is 11,277 hectares, constituting approximately 7.3% of the



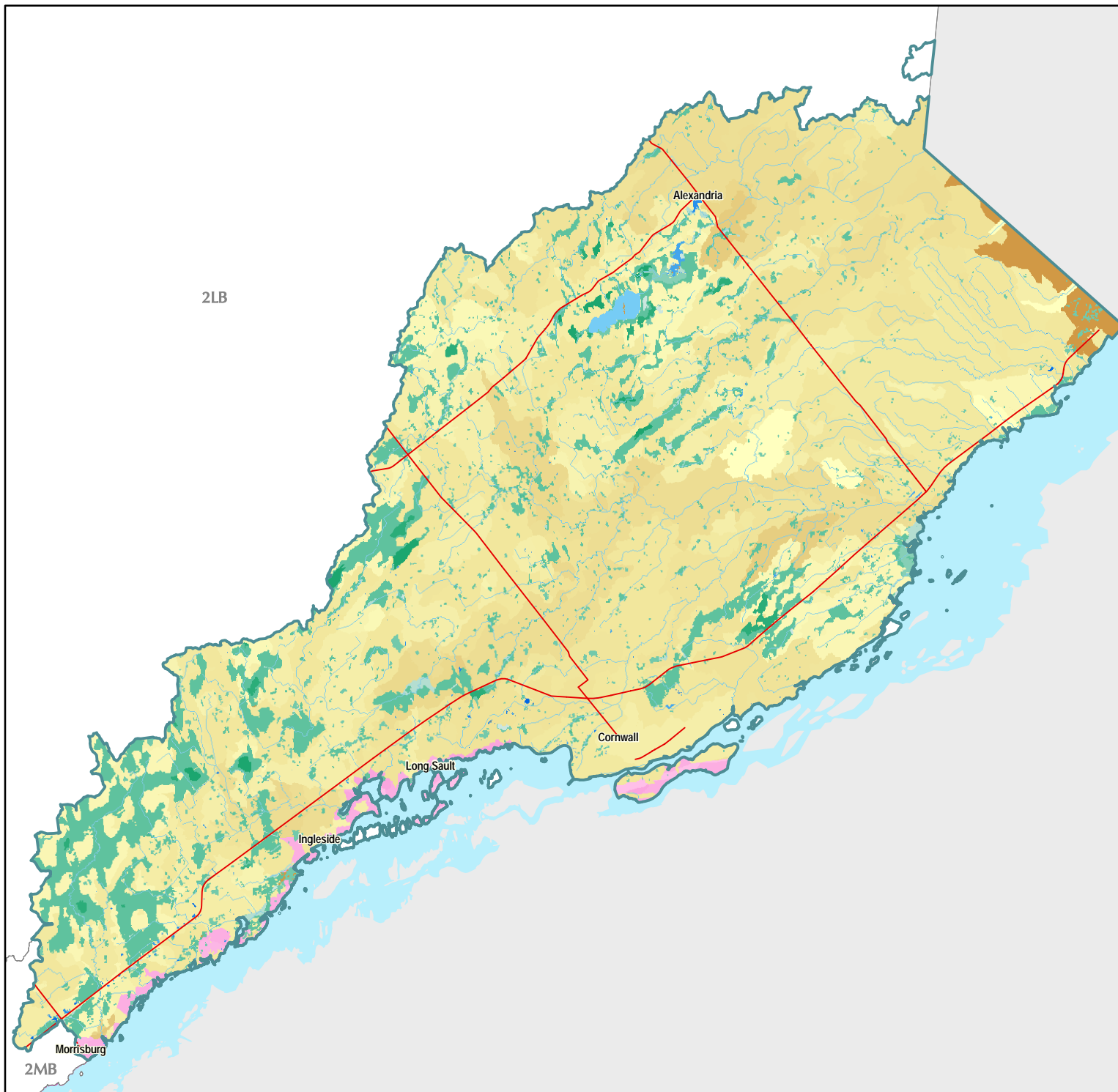
watershed's total area. The majority of these lands are provincially significant wetlands. There are approximately 474 hectares of protected coastal areas, 1,218 hectares of protected stream systems, 128 hectares of protected lakes and 9,372 hectares of protected wetlands.

Species and Vegetation Community Targets:

The primary targets in watershed 2MC are Ram's-head Lady's-slipper (*Cypripedium arietinum*), Eastern Prairie Fringed-orchid (*Platanthera leucophaea*) and Ebony Boghaunter (*Williamsonia fletcheri*). Secondary targets include Black Tern (*Chlidonias niger*), Spotted Turtle (*Clemmys guttata*), Cutlips Minnow (*Exoglossum maxillingua*) and Northern Map Turtle (*Graptemys geographica*). Eastern Prairie Fringed-orchid and Ebony Boghaunter are known from conservation lands. No rare vegetation communities have been documented in this watershed.

Conservation Blueprint:

The Conservation Blueprint includes 646 hectares of coastal areas, 22,354 hectares of stream systems, 478 hectares of lakes and 10,458 hectares of wetlands. The Conservation Blueprint also includes all of the known occurrences of Ram's-head Lady's-slipper (1), Eastern Prairie Fringed-orchid (1) and Ebony Boghaunter (1).

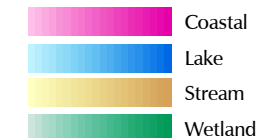


Great Lakes Conservation Blueprint for Biodiversity

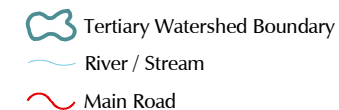
UPPER ST. LAWRENCE - RAISIN WATERSHED 2MC



Aquatic Ecological Systems



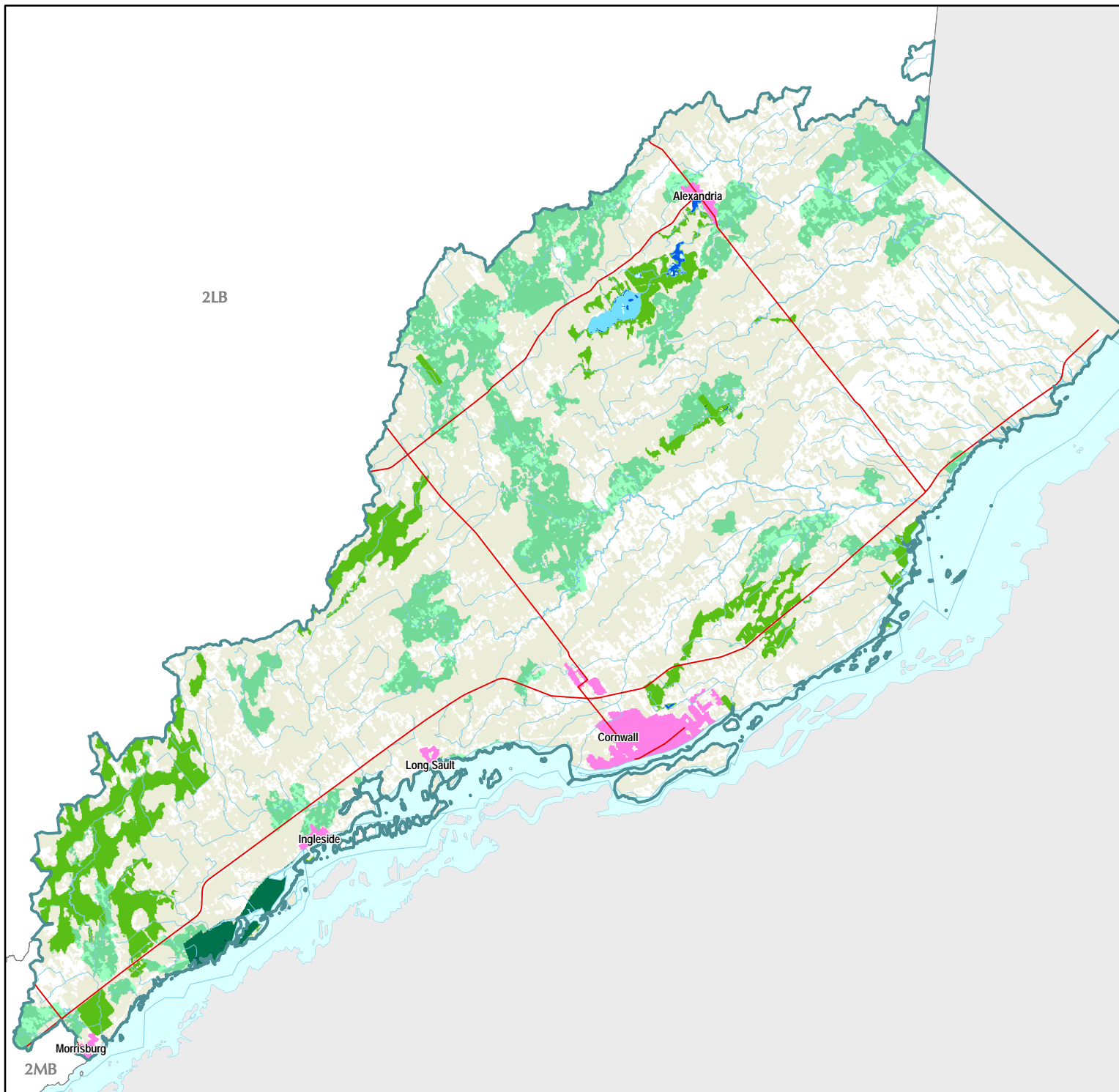
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

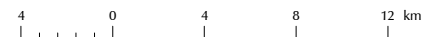
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Great Lakes Conservation Blueprint for Biodiversity

UPPER ST. LAWRENCE - RAISIN WATERSHED 2MC



Aquatic Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Areas
- Priority Stewardship Areas - Natural
- Priority Stewardship Areas - Non-Natural

Other Information

- Tertiary Watershed Boundary
- Lake / Water Course
- Main Road
- Urban Area
- Natural Cover



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of aquatic biodiversity in the Great Lakes watershed.

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Documented extant significant species information for tertiary watershed 2MC

# pops in 2MC	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	# of pops in CAs	% of pops in CAs	# of pops in all conservation lands	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Species														
1	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	1	100	1	100	1	100	secondary
3	<i>Exoglossum maxillingua</i>	Cutlips Minnow	G5	S1S2	NAR	THR	SAR	0	0	0	0	1	33	secondary
1	<i>Clemmys guttata</i>	Spotted Turtle	G5	S3	END	SC	SAR	0	0	1	100	1	100	secondary
1	<i>Graptemys geographica</i>	Northern Map Turtle	G5	S3	SC	SC	SAR	0	0	0	0	1	100	secondary
1	<i>Williamsonia fletcheri</i>	Ebony Boghaunter	G3G4	S2			GRank	1	100	1	100	1	100	2
1	<i>Cypripedium arietinum</i>	Ram's-head Lady's-slipper	G3	S3			GRank	0	0	0	0	1	100	2
1	<i>Platanthera leucophaea</i>	Eastern Prairie Fringed-orchid	G2	S2	END	END	GRank SAR	0	0	1	100	1	100	all viable

Ecological systems summary for tertiary watershed 2MC

	Total area (ha) in watershed	% of system in the watershed	Total area (ha) in conservation lands	% of systems in conservation land	Total area (ha) in the Blueprint	% of systems in the Blueprint	Total area (ha) of the Blueprint in Natural Cover	% of watershed in the Blueprint as natural cover
Coastal Systems	2739.81	1.78	474.25	17.31	646.50	23.60	606.75	22.15
Stream Systems	127774.69	82.78	1218.13	0.95	22354.50	17.50	17840.75	13.96
Lake Systems	650.88	0.42	128.81	19.79	478.75	73.55	478.75	73.55
Wetland Systems	20753.81	13.45	9372.75	45.16	10458.63	50.39	10458.63	50.39
Tertiary watershed	154349.88	100.00	11277.06	7.31	34021.50	22.04	29468.00	19.09

Ecological systems details for tertiary watershed 2MC

System Integer	# of patches in 2MC	Total area (ha) in 2MC	% of total area in 2MC	# of patches in federal lands	Total area (ha) in federal lands	% of system in federal lands	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% system in the Blueprint
Target Ecological Systems																			
Coastal Systems																			
104	1	2.00	0.00			0.00			0.00			0.00			0.00	1	2.00	2.00	100.00
105	37	211.31	0.14	6	16.00	7.57			0.00	3	3.63	1.72	12	21.50	10.17	26	62.56	62.56	29.61
106	2	4.31	0.00	2	4.31	100.00			0.00			0.00	2	4.31	100.00	4	4.31	4.31	100.00
107	14	55.38	0.04	8	18.81	33.97			0.00	2	5.06	9.14	10	23.88	43.12	16	25.69	25.69	46.39
108	63	181.50	0.12	5	7.44	4.10			0.00	2	2.38	1.31	15	14.44	7.95	33	22.06	22.06	12.16
113	54	53.63	0.03			0.00			0.00	4	0.94	1.75	8	1.69	3.15	19	3.81	3.81	7.11

System Integer	# of patches in 2MC	Total area (ha) in 2MC	% of total area in 2MC	# of patches in federal lands	Total area (ha) in federal lands	% of system in federal lands	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% system in the Blueprint
Target Ecological Systems continued																			
Coastal Systems continued																			
115	9	4.38	0.00	7	4.06	92.86			0.00			0.00	7	4.13	94.29	12	4.19	4.19	95.71
116	34	34.81	0.02	14	9.88	28.37			0.00	2	3.75	10.77	24	15.88	45.60	43	15.88	15.88	45.60
125	20	252.88	0.16			0.00			0.00			0.00			0.00	4	115.13	75.38	45.53
126	58	1240.25	0.80	15	208.19	16.79			0.00			0.00	16	233.19	18.80	21	235.63	235.63	19.00
127	9	161.63	0.10	4	115.63	71.54			0.00			0.00	4	115.63	71.54	5	115.63	115.63	71.54
199	20	332.00	0.22	4	20.69	6.23			0.00			0.00	9	21.00	6.33	11	21.00	21.00	6.33
Stream Systems																			
201	3	8.19	0.01			0.00			0.00	1	0.19	2.29	5	0.69	8.40	5	0.69	0.69	8.40
202	10	11.00	0.01			0.00			0.00			0.00			0.00				0.00
203	74	3500.50	2.27			0.00	1	49.56	1.42	2	21.31	0.61	110	98.38	2.81	131	2047.81	1740.81	58.50
204	1	0.13	0.00			0.00			0.00			0.00			0.00				0.00
205	133	6945.00	4.50			0.00	8	156.69	2.26	28	190.56	2.74	454	392.50	5.65	547	393.25	393.25	5.66
206	43	3236.25	2.10	4	10.13	0.31			0.00	2	56.81	1.76	19	68.13	2.11	22	1256.94	1087.38	38.84
207	4	46.50	0.03			0.00			0.00			0.00			0.00				0.00
208	62	1968.81	1.28	1	14.31	0.73			0.00	5	7.38	0.37	121	36.00	1.83	138	572.50	538.88	29.08
209	4	302.63	0.20			0.00			0.00	1	0.44	0.14	6	0.94	0.31	3	302.50	230.94	99.96
210	74	18937.25	12.27			0.00			0.00	4	37.13	0.20	12	37.88	0.20	20	1261.88	1110.56	6.66
211	102	5450.38	3.53	29	244.94	4.49			0.00	6	37.69	0.69	235	301.63	5.53	260	1072.75	863.38	19.68
213	5	190.06	0.12			0.00			0.00			0.00			0.00	5	188.69	139.94	99.28
214	12	882.44	0.57			0.00			0.00			0.00	40	4.50	0.51	21	663.31	476.00	75.17
215	72	14694.63	9.52	5	28.38	0.19			0.00	1	12.50	0.09	144	57.25	0.39	181	454.06	416.88	3.09
216	89	21721.50	14.07	8	99.25	0.46			0.00	3	27.44	0.13	207	151.50	0.70	274	998.81	920.38	4.60
217	26	4611.69	2.99			0.00			0.00	1	0.94	0.02	1	0.94	0.02	4	360.25	287.19	7.81
218	60	14552.25	9.43	4	2.13	0.01			0.00	3	2.88	0.02	65	16.88	0.12	87	2766.00	2382.13	19.01
219	13	4881.94	3.16			0.00			0.00			0.00			0.00	5	2086.31	1478.75	42.74
220	10	3272.19	2.12			0.00			0.00			0.00			0.00	4	2724.13	1785.63	83.25
222	24	15350.81	9.95			0.00			0.00	3	7.75	0.05	4	7.81	0.05	12	831.25	579.50	5.42
224	11	1364.50	0.88			0.00			0.00			0.00			0.00	4	972.19	849.44	71.25
225	15	2175.44	1.41			0.00			0.00			0.00			0.00	3	1569.00	1296.75	72.12
226	2	276.56	0.18			0.00			0.00			0.00			0.00	4	276.56	156.38	100.00
227	2	26.06	0.02			0.00	2	25.44	97.60			0.00	2	25.44	97.60	3	25.44	25.44	97.60
230	4	39.88	0.03			0.00			0.00			0.00			0.00				0.00
231	6	863.88	0.56			0.00			0.00			0.00	6	0.56	0.07	5	854.69	568.25	98.94
233	3	658.38	0.43			0.00			0.00			0.00			0.00	3	658.38	495.13	100.00
235	1	47.75	0.03			0.00	1	17.13	35.86			0.00	1	17.13	35.86	2	17.13	17.13	35.86
317	3	367.25	0.24			0.00			0.00			0.00	28	19.06	5.19	1	367.06	367.06	99.95

System Integer	# of patches in 2MC	Total area (ha) in 2MC	% of total area in 2MC	# of patches in federal lands	Total area (ha) in federal lands	% of system in federal lands	# of patches in ANSIs	Total area (ha) in ANSIs	% of system in ANSIs	# of patches in CA lands	Total area (ha) of CA lands	% of system in CA lands	# of patches in all conservation lands	Total area (ha) in all conservation lands	% of system in all conservation lands	# of patches in the Blueprint	Total area (ha) in the Blueprint	Area (ha) of Blueprint in natural cover	% system in the Blueprint
Target Ecological Systems continued																			
Lake Systems																			
325	14	10.50	0.01			0.00			0.00			0.00			0.00				0.00
326	34	98.13	0.06	2	1.19	1.21			0.00	3	27.25	27.77	10	82.25	83.82	16	83.69	83.69	85.29
327	22	12.00	0.01			0.00			0.00			0.00			0.00				0.00
328	59	19.25	0.01	1	0.19	0.97			0.00	1	0.44	2.27	2	0.63	3.25	2	0.63	0.63	3.25
329	3	1.81	0.00			0.00			0.00			0.00			0.00				0.00
330	55	52.63	0.03	5	1.25	2.38			0.00	2	0.19	0.36	13	25.81	49.05	21	26.31	26.31	50.00
331	41	14.06	0.01			0.00			0.00	1	0.06	0.44	1	0.06	0.44	1	0.06	0.06	0.44
332	84	24.56	0.02			0.00			0.00			0.00	4	0.25	1.02	4	0.25	0.25	1.02
333	5	4.50	0.00			0.00			0.00			0.00			0.00				0.00
334	24	5.13	0.00			0.00			0.00			0.00			0.00				0.00
335	140	31.50	0.02	1	0.13	0.40			0.00	2	0.31	0.99	7	0.75	2.38	10	0.75	0.75	2.38
336	23	9.56	0.01			0.00			0.00			0.00			0.00				0.00
Wetland Systems																			
401	104	198.81	0.13	11	17.88	8.99			0.00	5	11.75	5.91	45	100.06	50.33	51	100.44	100.44	50.52
402	127	505.25	0.33	2	63.81	12.63	1	2.81	0.56	6	98.06	19.41	43	244.94	48.48	57	340.25	340.25	67.34
404	2	237.00	0.15			0.00			0.00	8	91.81	38.74	2	235.63	99.42	2	237.00	237.00	100.00
405	1116	2673.63	1.73	17	93.38	3.49	4	5.88	0.22	9	11.75	0.44	60	208.63	7.80	76	215.44	215.44	8.06
406	666	16002.06	10.37	11	203.81	1.27	3	99.94	0.62	29	178.75	1.12	88	7863.69	49.14	114	8782.44	8782.44	54.88
407	25	33.88	0.02			0.00			0.00			0.00	1	0.25	0.74	1	0.25	0.25	0.74
408	9	26.69	0.02			0.00			0.00			0.00			0.00				0.00
409	21	583.81	0.38			0.00			0.00			0.00	13	374.44	64.14	16	434.00	434.00	74.34
410	15	492.69	0.32			0.00			0.00	3	8.81	1.79	10	345.13	70.05	10	348.81	348.81	70.80
Non-Target Ecological Systems																			
Coastal Systems																			
121	16	61.31	0.04	2	12.81	20.90			0.00			0.00	2	12.81	20.90	2	12.81	12.81	20.90
122	3	23.25	0.02			0.00			0.00	1	0.06	0.27	1	0.06	0.27	1	0.06	0.06	0.27
123	1	4.75	0.00			0.00			0.00			0.00			0.00				0.00
124	55	116.44	0.08	3	3.19	2.74			0.00	2	0.50	0.43	7	5.75	4.94	8	5.75	5.75	4.94
Unclassified Ecological Systems																			
2	7	1758.13	1.14			0.00			0.00			0.00			0.00				0.00
5	195	811.75	0.53	20	4.31	0.53			0.00	6	7.19	0.89	61	59.81	7.37	79	59.81	59.81	7.37
6	93	1618.94	1.05	6	16.88	1.04			0.00	1	0.19	0.01	26	23.31	1.44	34	23.31	23.31	1.44

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and Additional Designated Natural Heritage Areas which include provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Priority Stewardship Areas are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.



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