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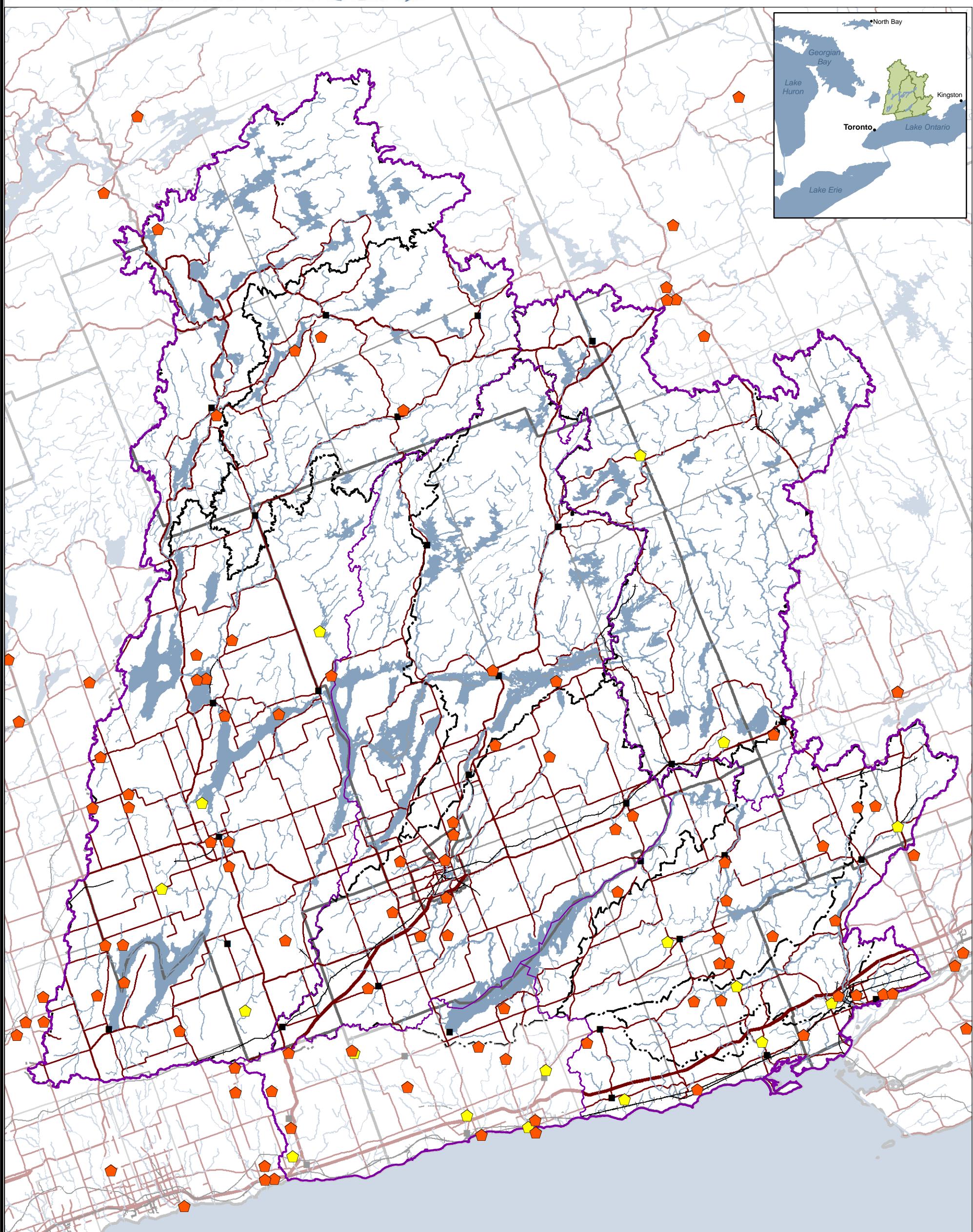
OTHER DATA SOURCES:
Conceptual Water Budget Subwatersheds: Trent Conservation Coalition

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Legend
 ■ Settlements
 -+ Railways
 Watercourse
 Roads
 Highways
 Multi Lane Highways
 ■ Source Protection Region
 ■ Source Protection Areas
 Conceptual Water Budget Subwatersheds
 ■ Upper and Single Tier Municipality
 ■ Lower Tier Municipality
 ■ Waterbody

N
0 5 10 20 30 40
Kilometres

Trent Conservation Coalition
Source Protection Region
www.trentsourceprotection.on.ca



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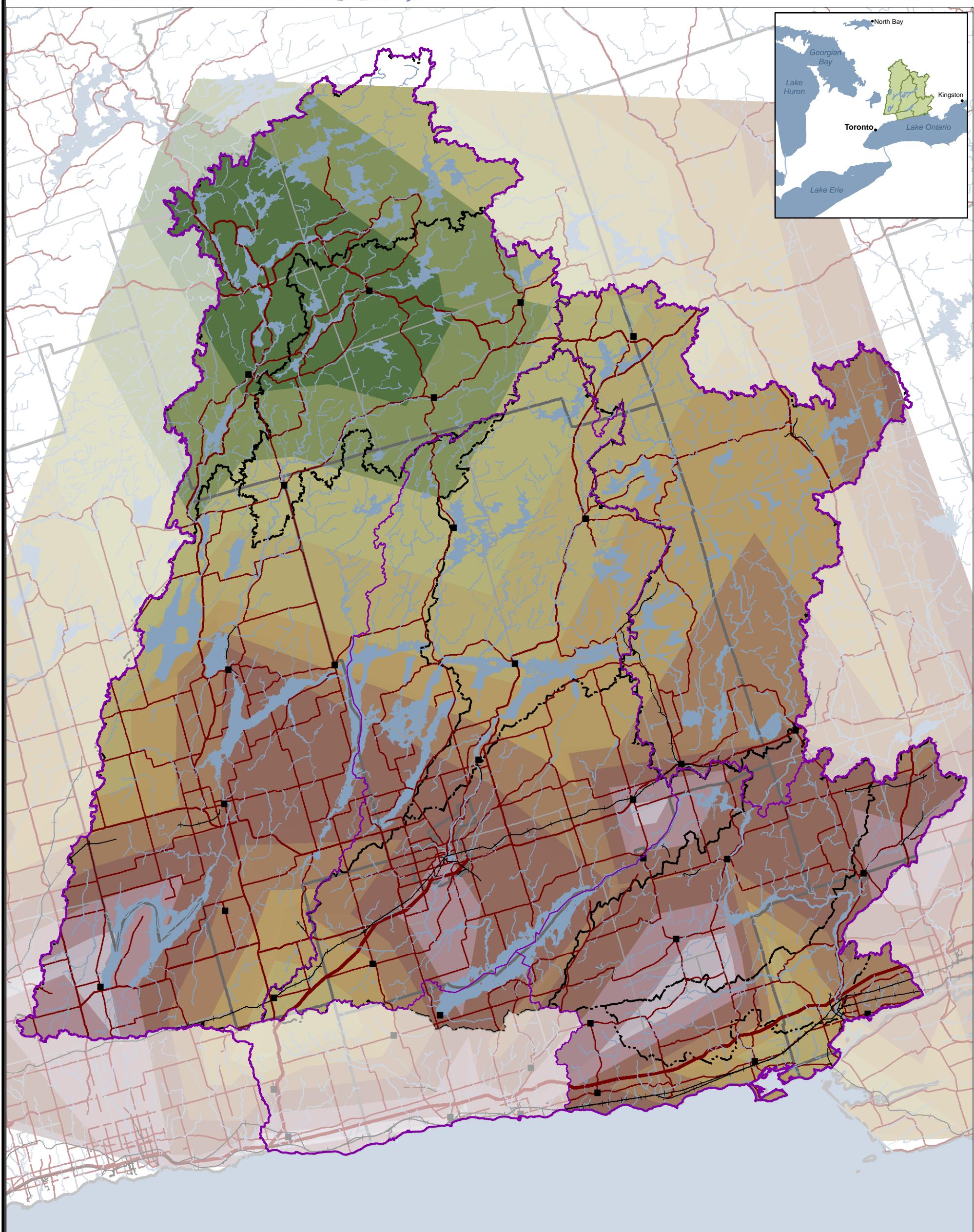
- Settlements
- Railway
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Climate Stations

- Environment Canada
- Conservation Authorities

0 5 10 20 30 40
Kilometres

N
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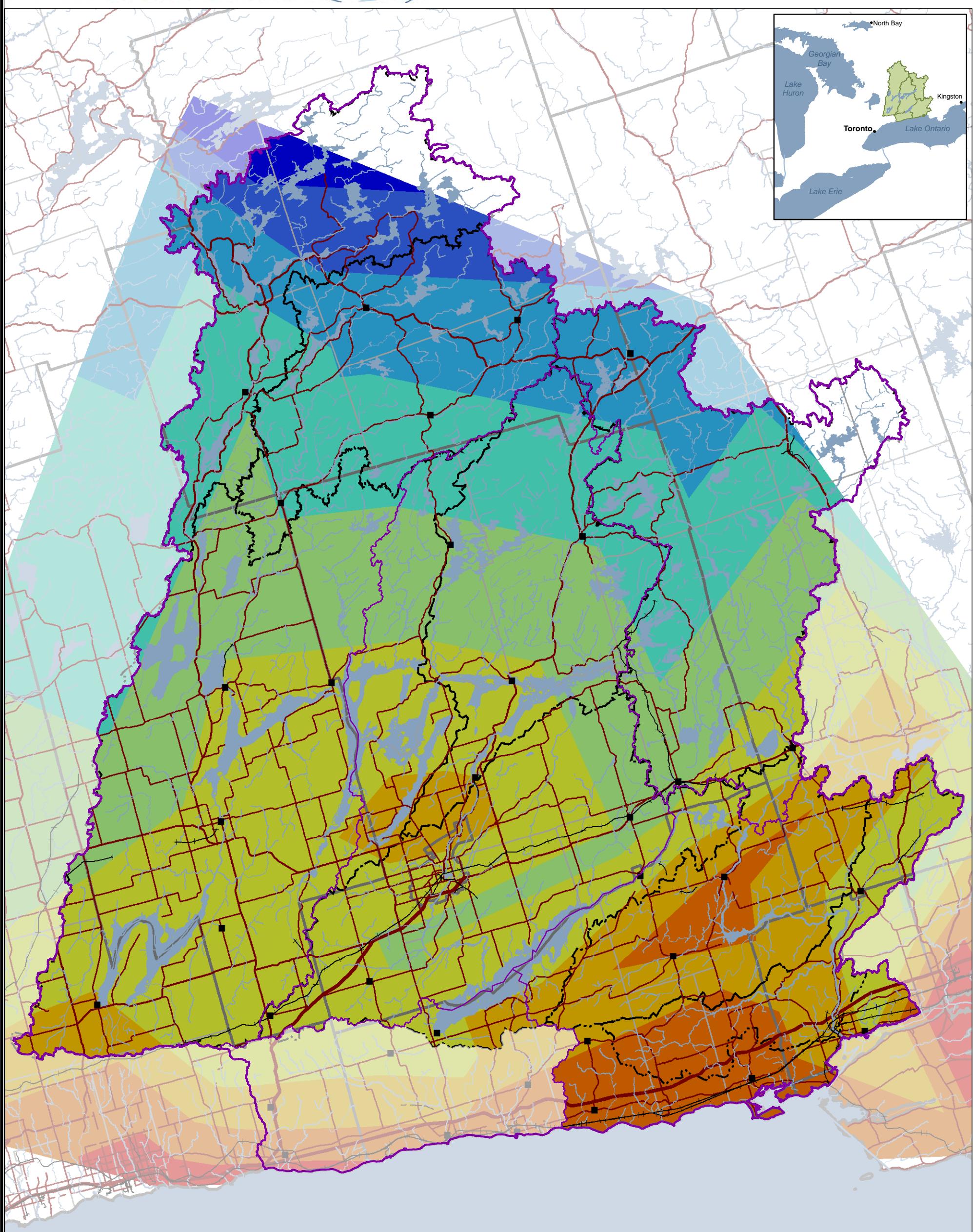
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Average Annual Precipitation (mm)

1059 - 1092
1026 - 1059
994 - 1026
961 - 994
928 - 961
895 - 928
862 - 895
830 - 862
797 - 830

0 5 10 20 30 40
Kilometres

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Average Annual Temperature (°C)

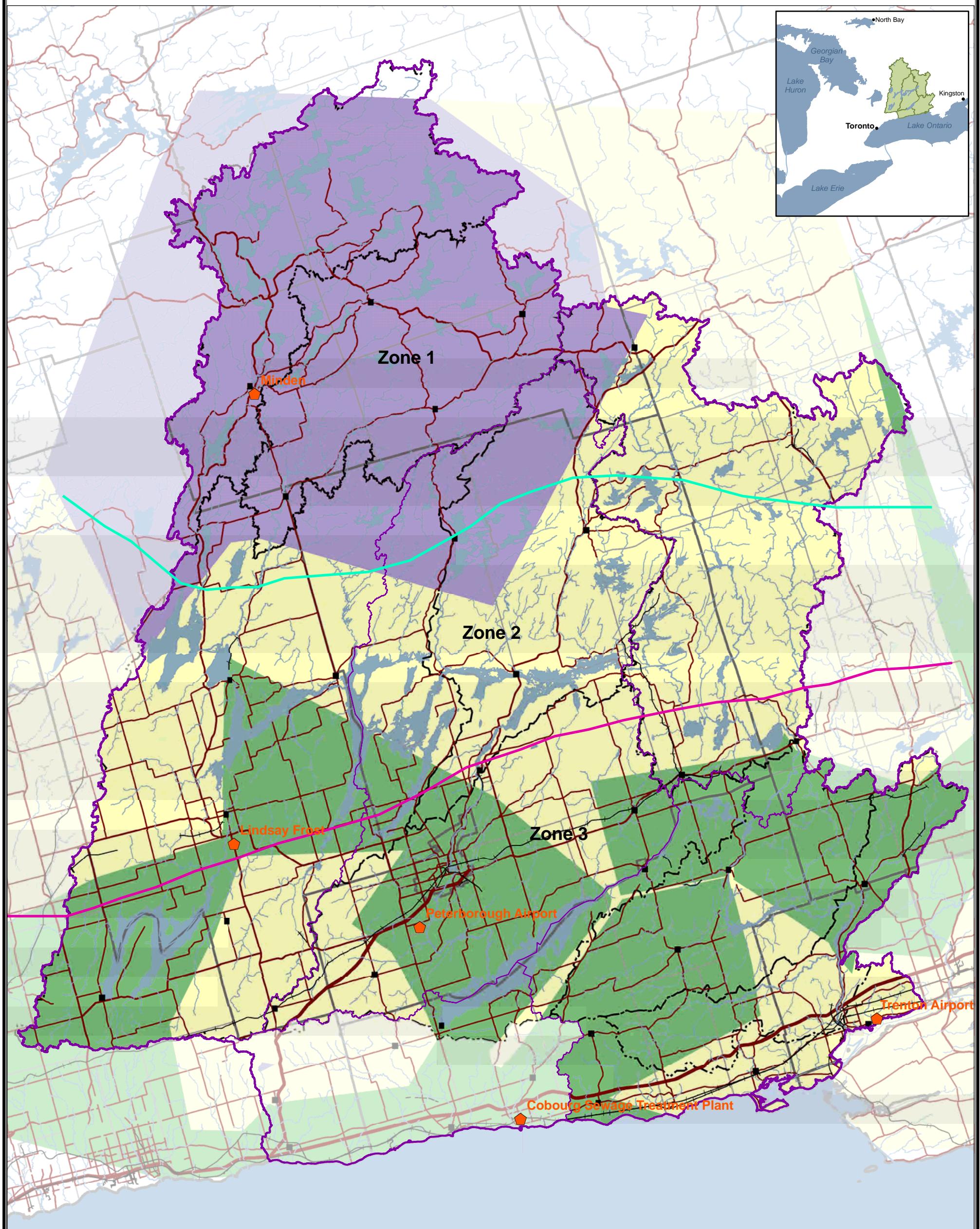
7.8 - 8.4
7.3 - 7.8
6.8 - 7.3
6.3 - 6.8
5.8 - 6.3
5.3 - 5.8
4.7 - 5.3
4.2 - 4.7
3.7 - 4.2

0 5 10 20 30 40
Kilometres



Trent Conservation Coalition
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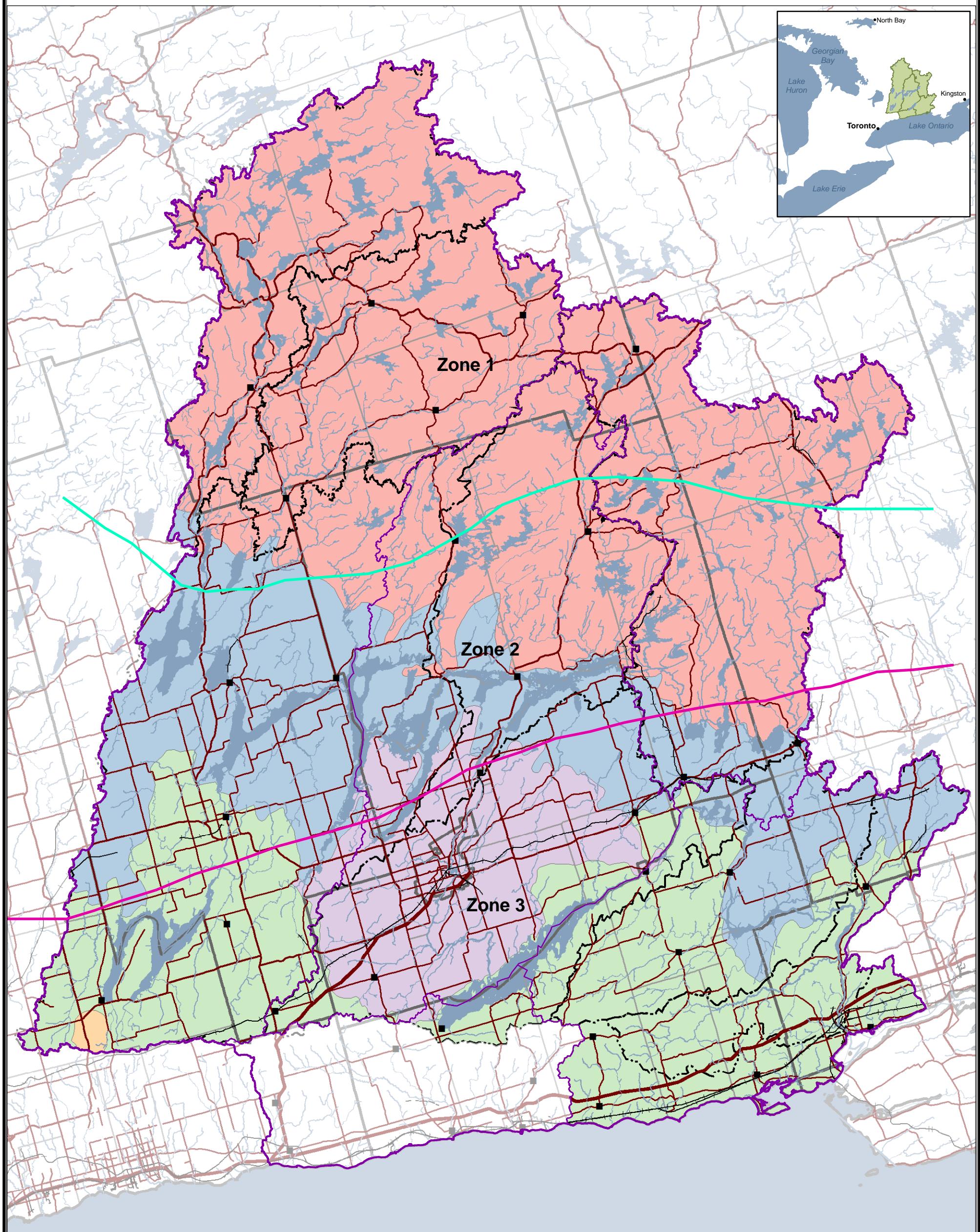
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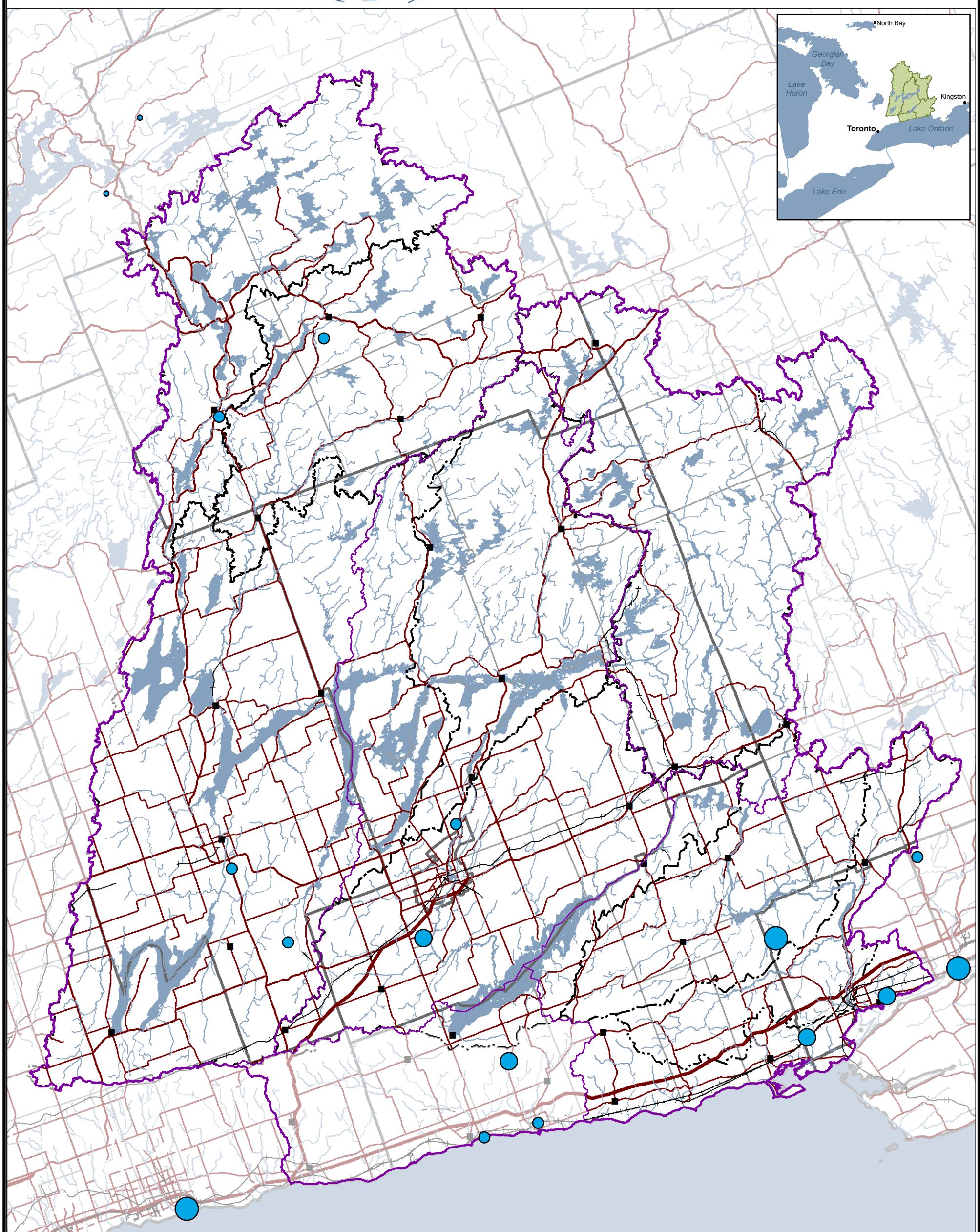
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0 5 10 20 30 40
Kilometres

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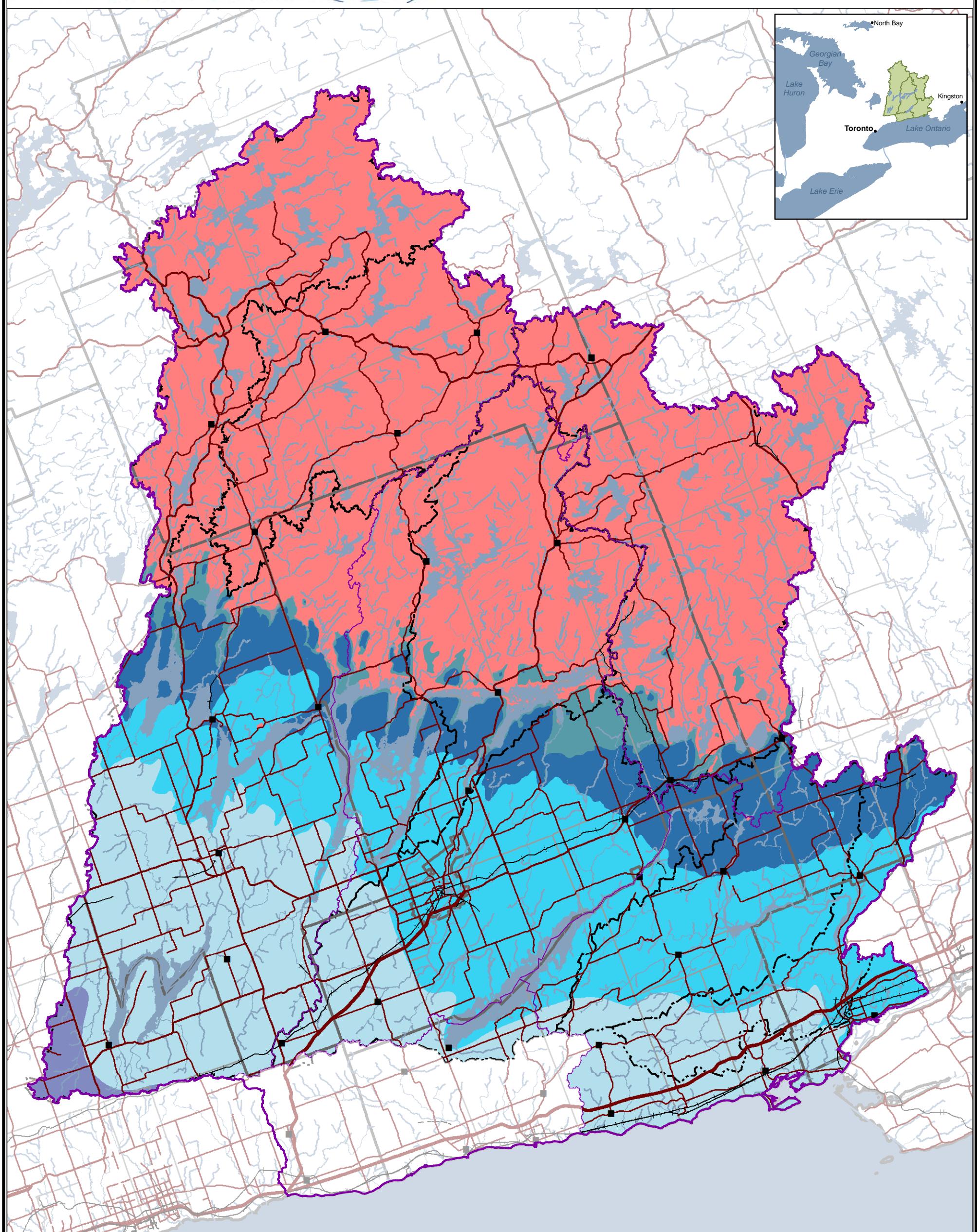
Mean Annual Potential Evapotranspiration (mm)

- 469 - 500
- 501 - 550
- 551 - 570
- 571 - 590

0 5 10 20 30 40
Kilometres



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Bedrock Geology (Formations)

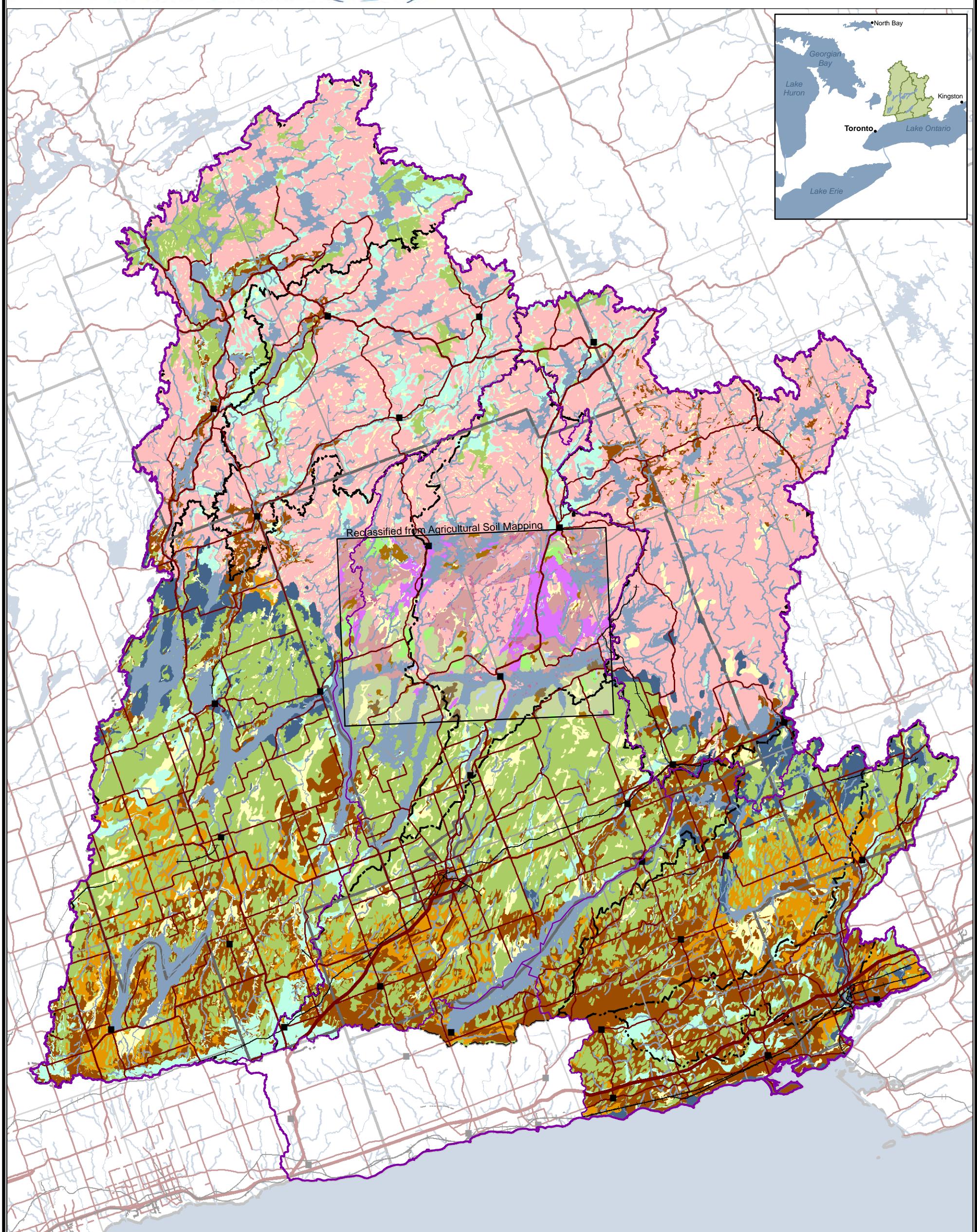
- 1: Precambrian
- 7: Shadow Lake
- 8: Gull River
- 9: Bobcaygeon
- 10: Verulam
- 11: Lindsay
- 12: Blue Mountain

0 5 10 20 30 40
Kilometres



Trent Conservation Coalition
Source Protection Region

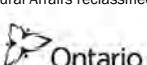
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OTHER DATA SOURCES:
Conceptual Water Budget Subwatersheds: Trent Conservation Coalition
*Conservation Authorities Moraine Coalition / York-Peel-Durham-Toronto (2009).
Agricultural soil mapping from the Ontario Ministry of Agriculture, Food, and Rural Affairs reclassified to Ontario Geological Survey geological units.

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Ontario Geological Survey

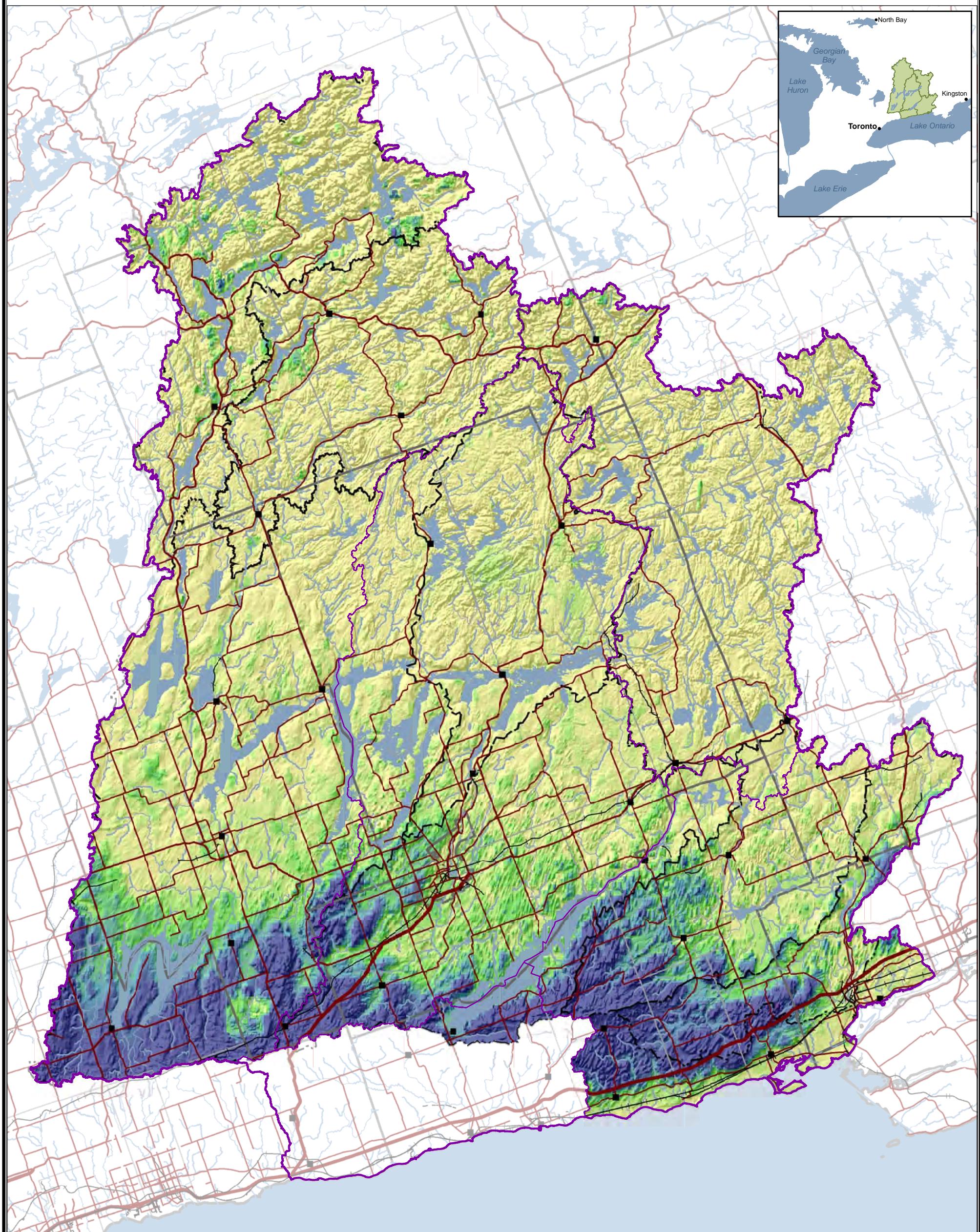
- Paleozoic Bedrock
- Precambrian Bedrock
- diamicton
- fill
- gravel
- organic deposits
- sand
- silt

CAMC-YPDT*

- Bedrock drift complex
- Bog and swamp deposits
- Diamicton sandy
- Diamicton silty
- Glaciofluvial outwash; Sand
- Glaciolacustrine; Silt
- Kame
- Organic deposits
- Precambrian Bedrock

0 5 10 20 30 40
Kilometres

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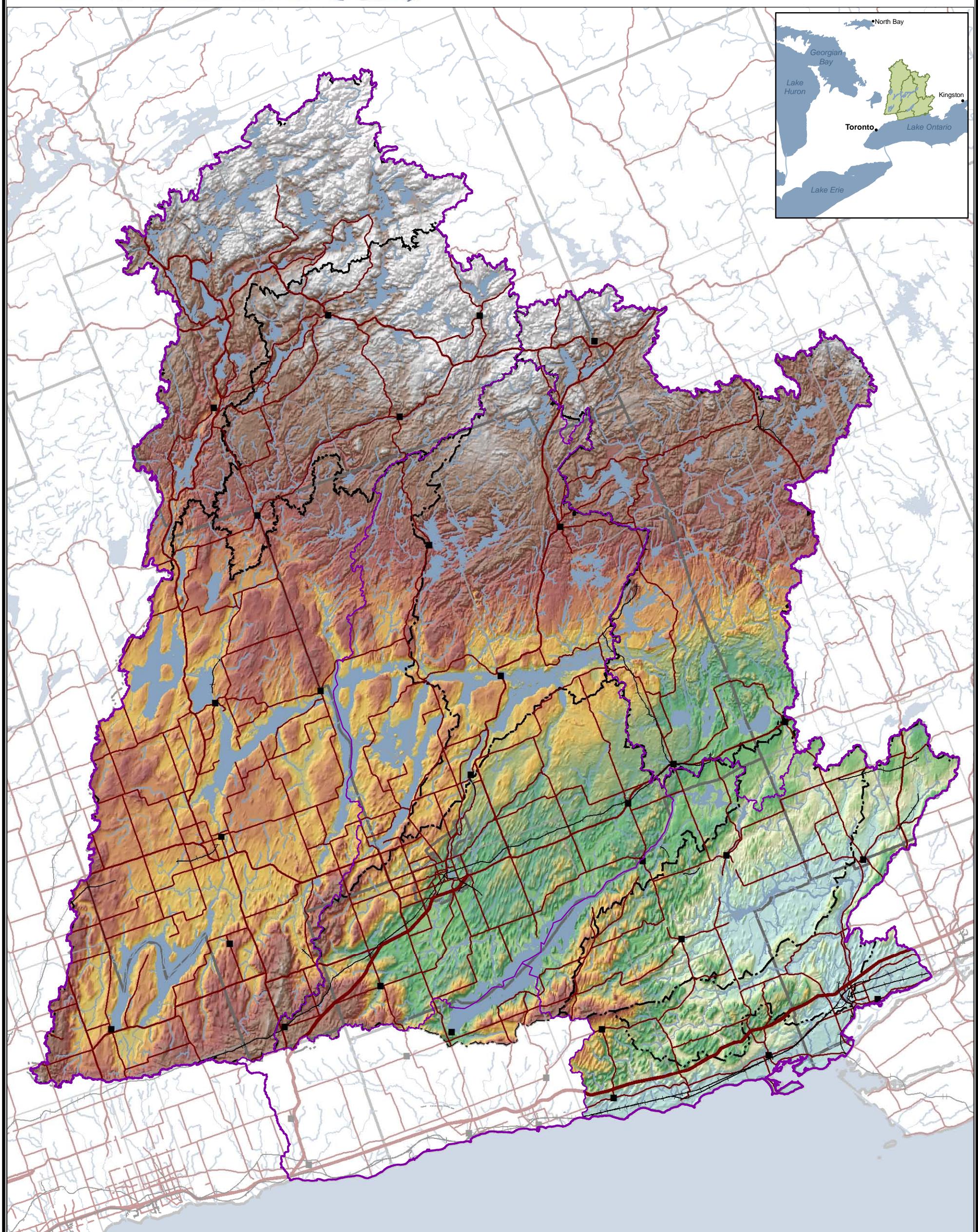
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0 5 10 20 30 40
Kilometres



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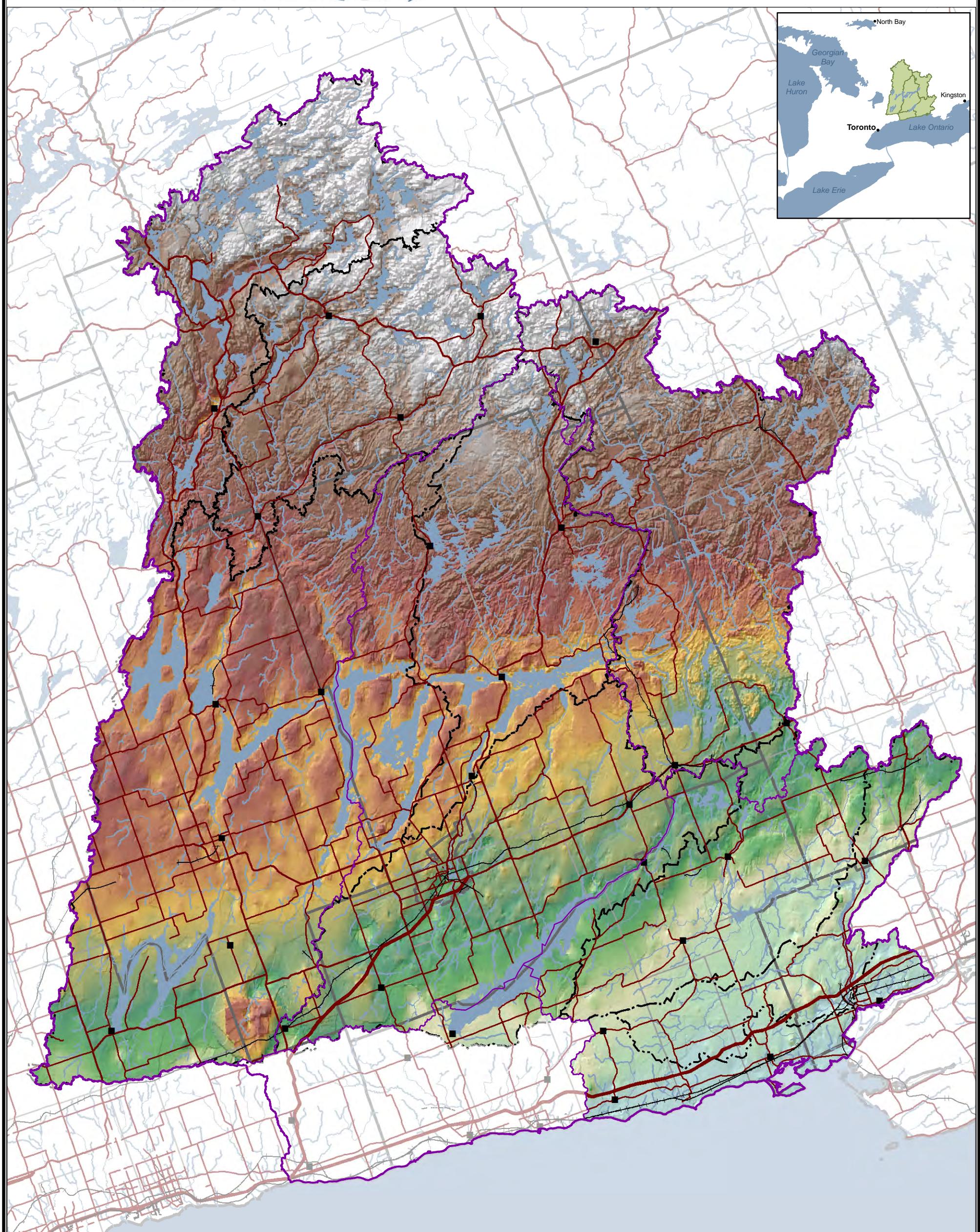
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0 5 10 20 30 40
Kilometres

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Bedrock Elevation (m)

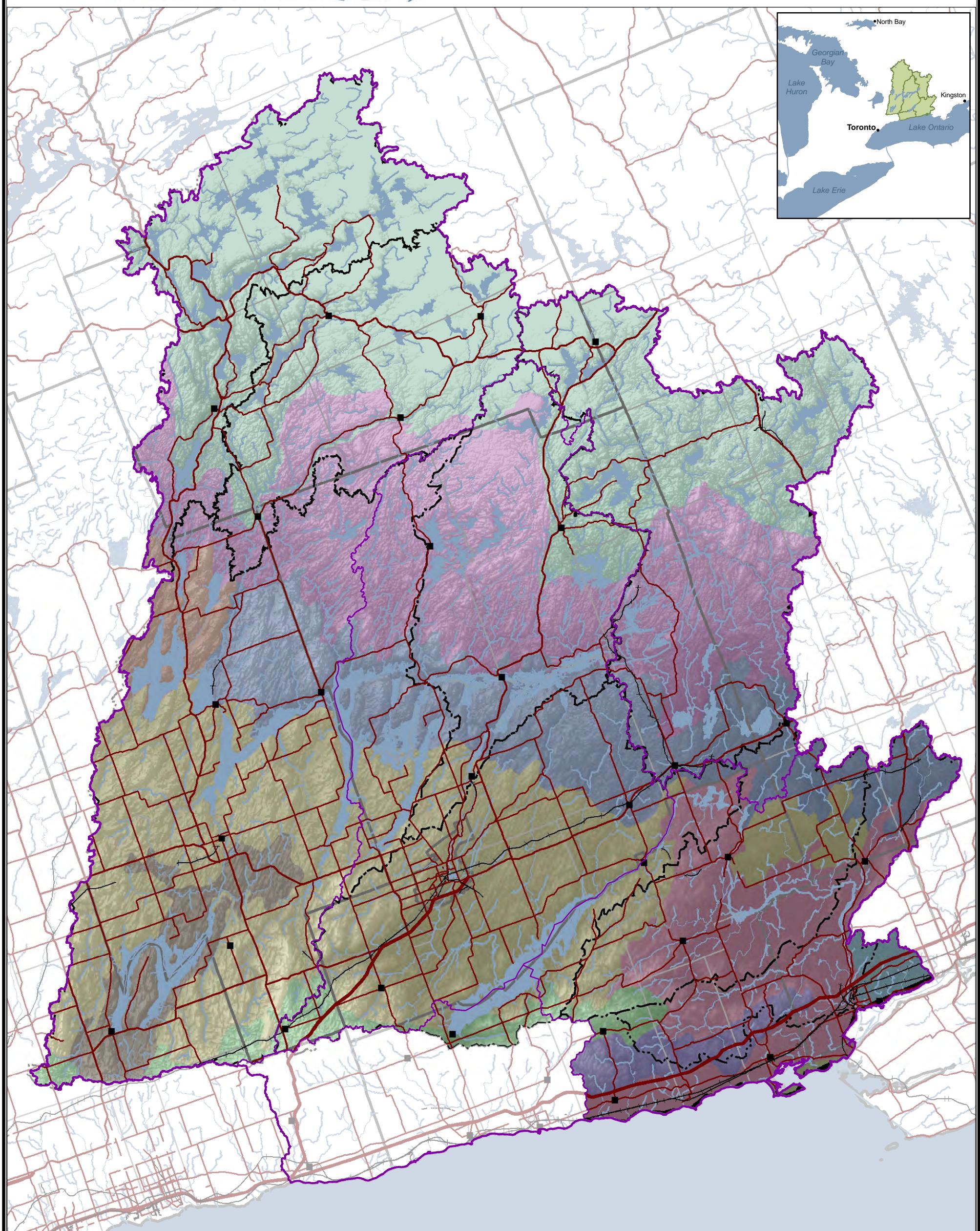
High : 545
Low : 53

0 5 10 20 30 40
Kilometres



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Physiographic Regions

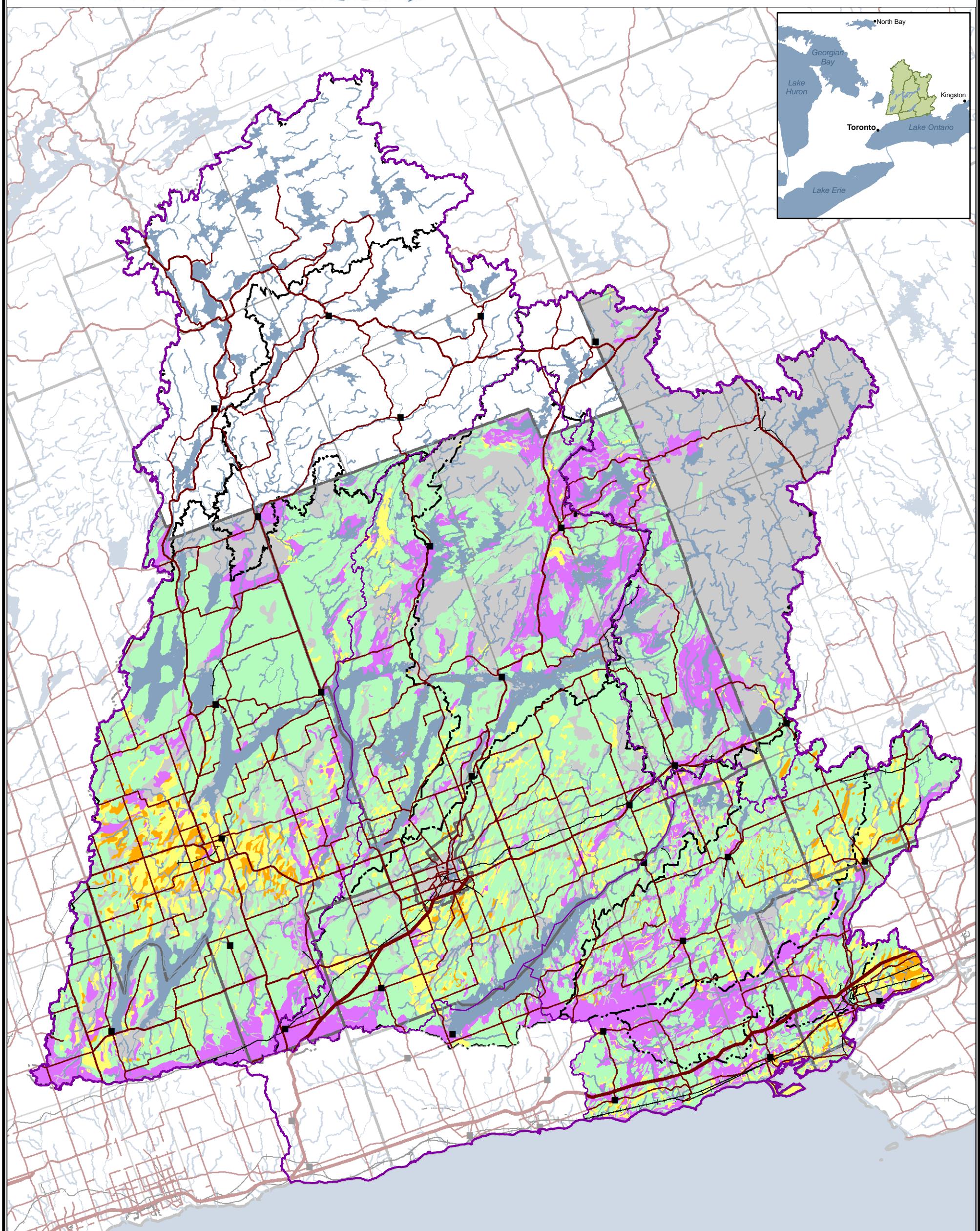
- ALGONQUIN HIGHLANDS
- CARDEN PLAIN
- DUMMER MORAINES
- GEORGIAN BAY FRINGE
- IROQUOIS PLAIN
- NAPANEE PLAIN
- OAK RIDGES MORAINE
- PETERBOROUGH DRUMLIN FIELD
- PRINCE EDWARD PENINSULA
- SCHOMBERG CLAY PLAINS
- SOUTH SLOPE

0 5 10 20 30 40
Kilometres



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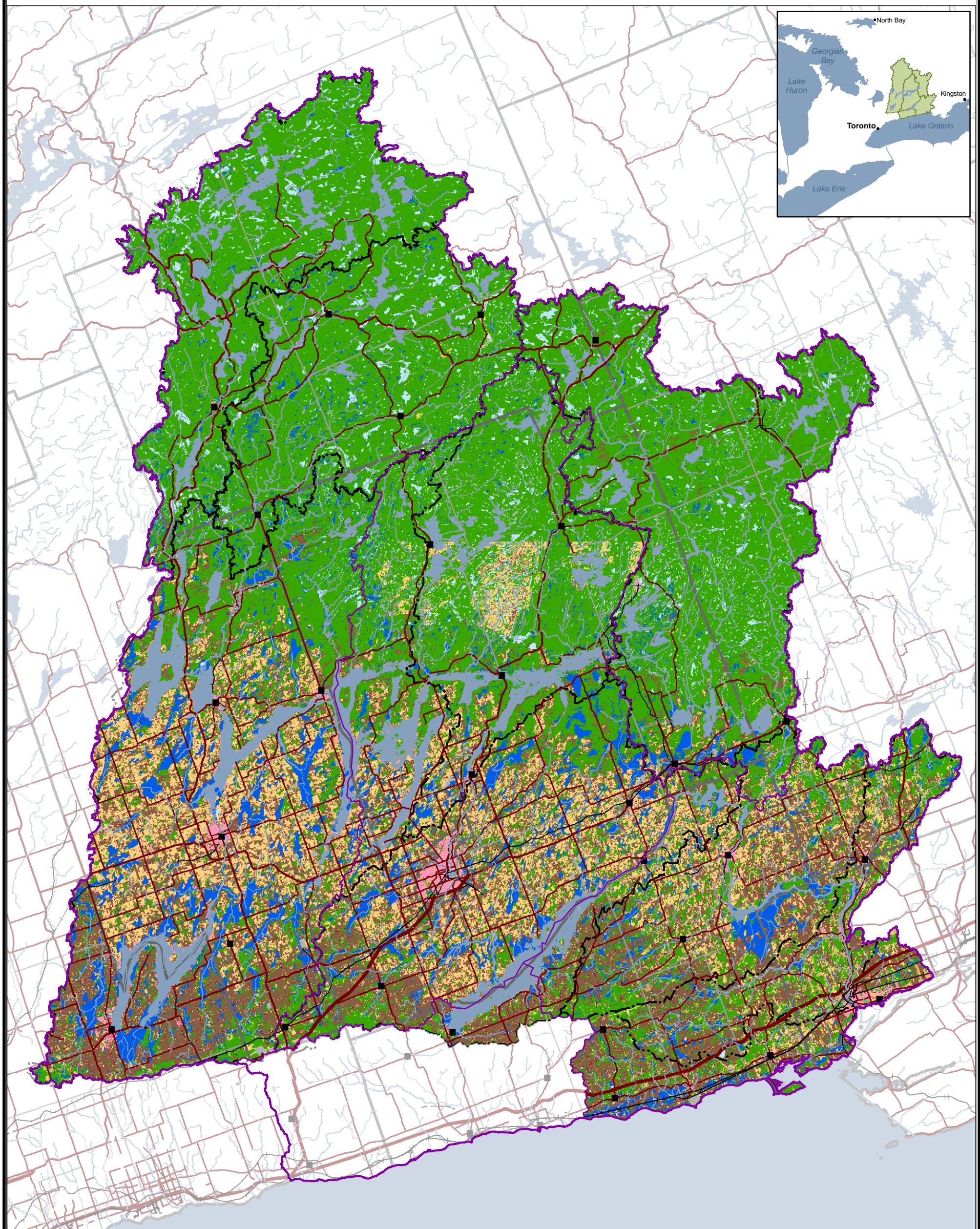
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0 5 10 20 30 40
Kilometres



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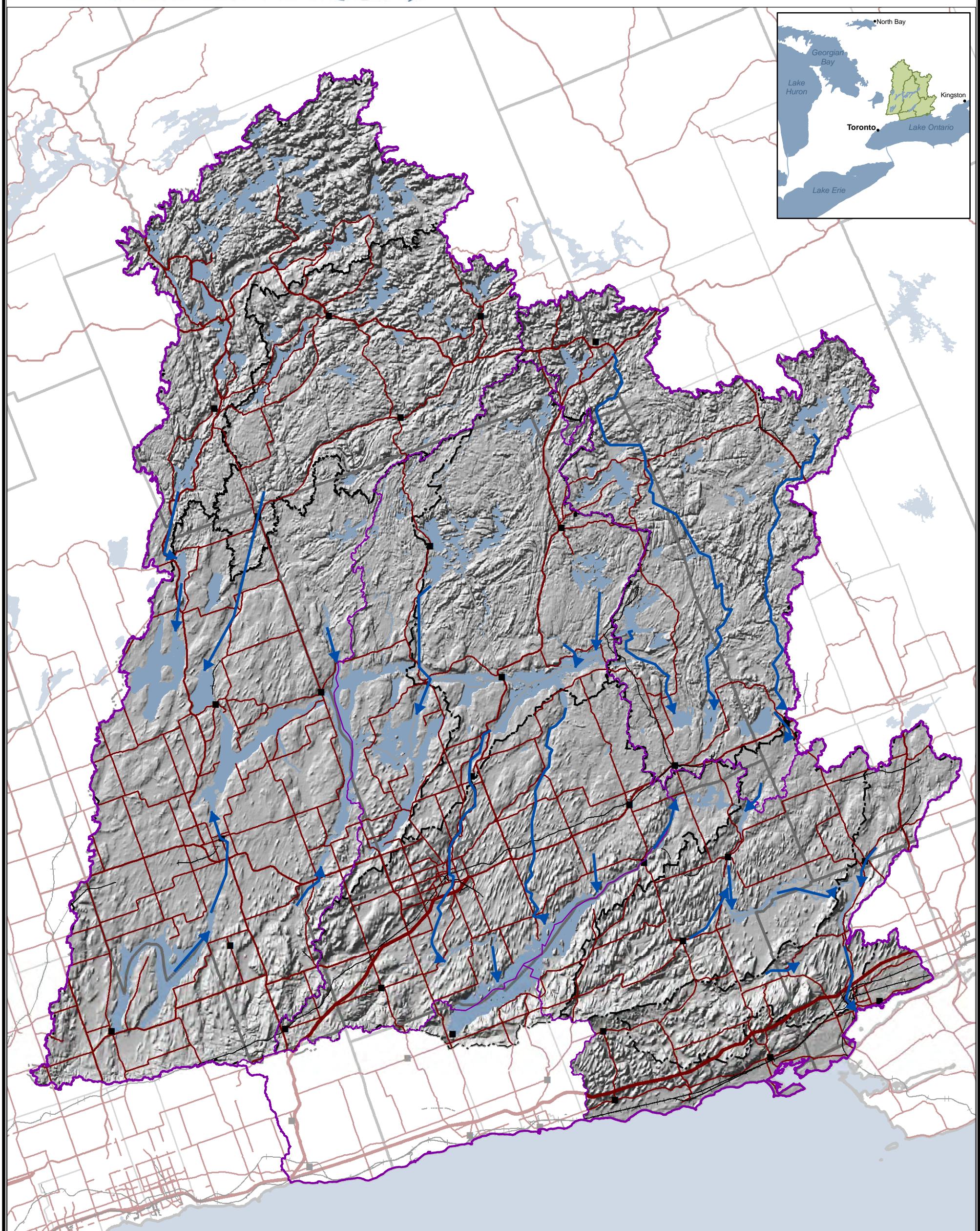
Landcover Cover Type

Hay / Pasture
High Intensity Developed
Low Intensity Developed
Quarries
Roads
Row Crops
Transitional
Water
Wetland
Woodland

0 5 10 20 30 40
Kilometres



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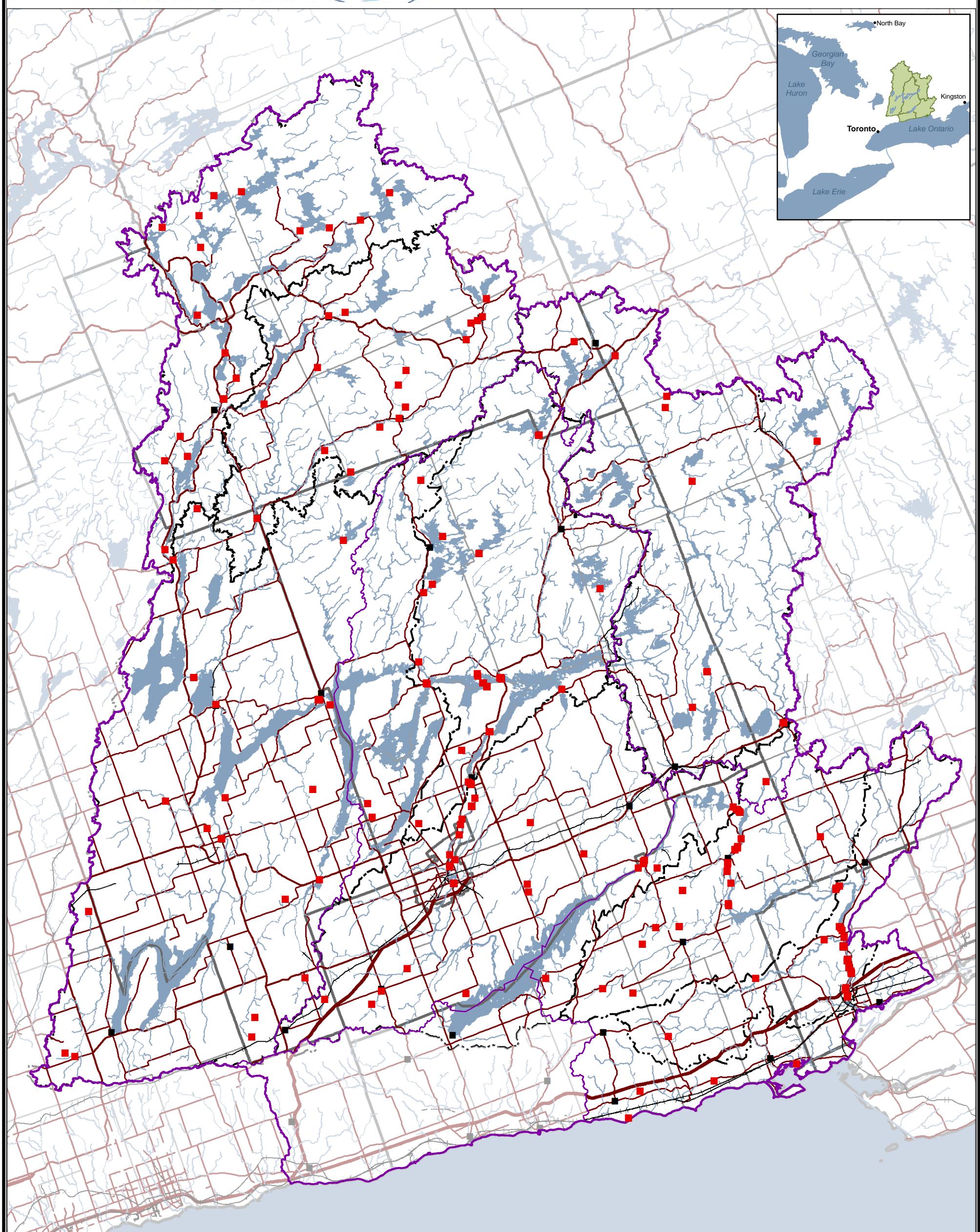
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→ Water Flow Direction

0 5 10 20 30 40
Kilometres

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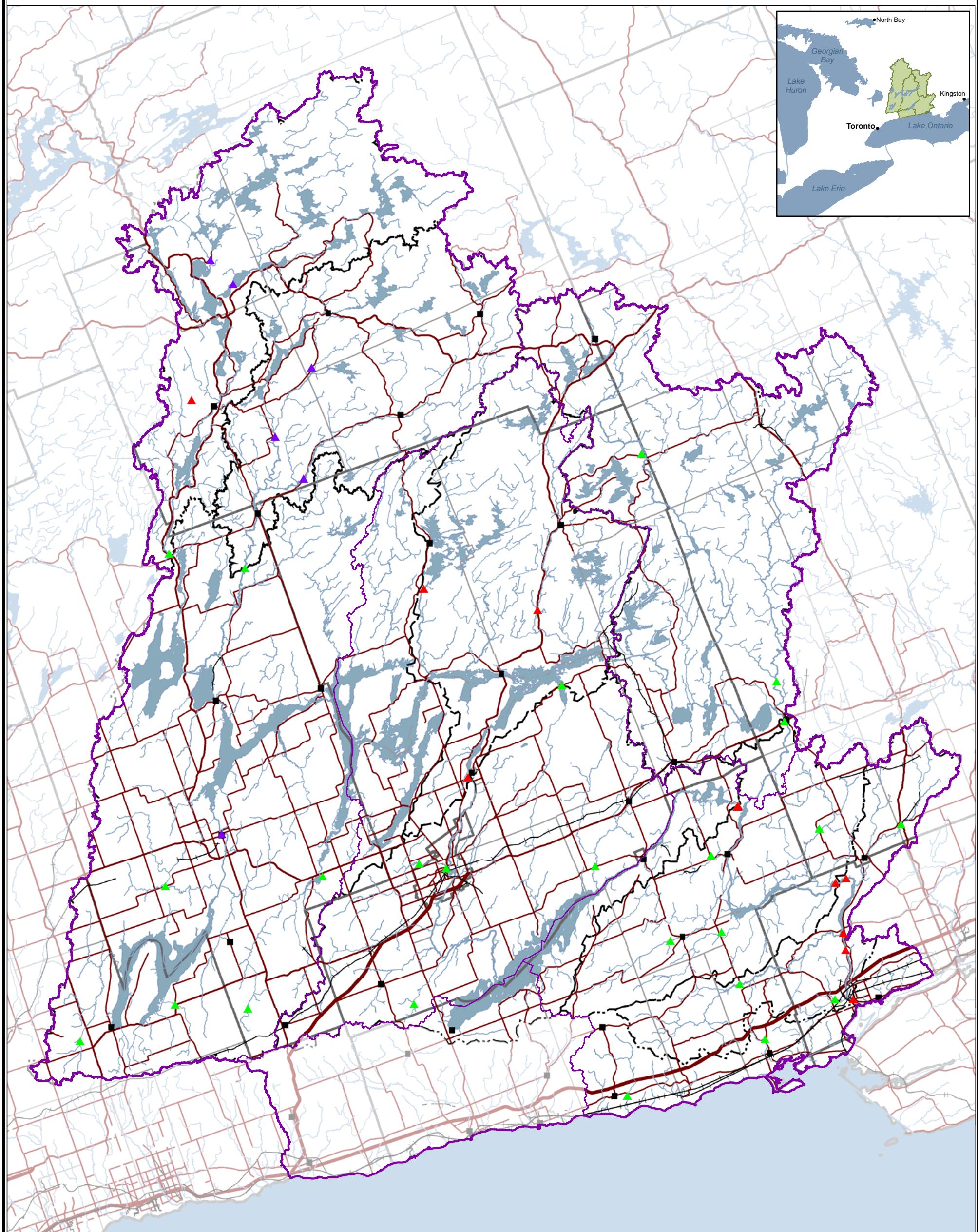
■ Water Control Structure

0 5 10 20 30 40
Kilometres



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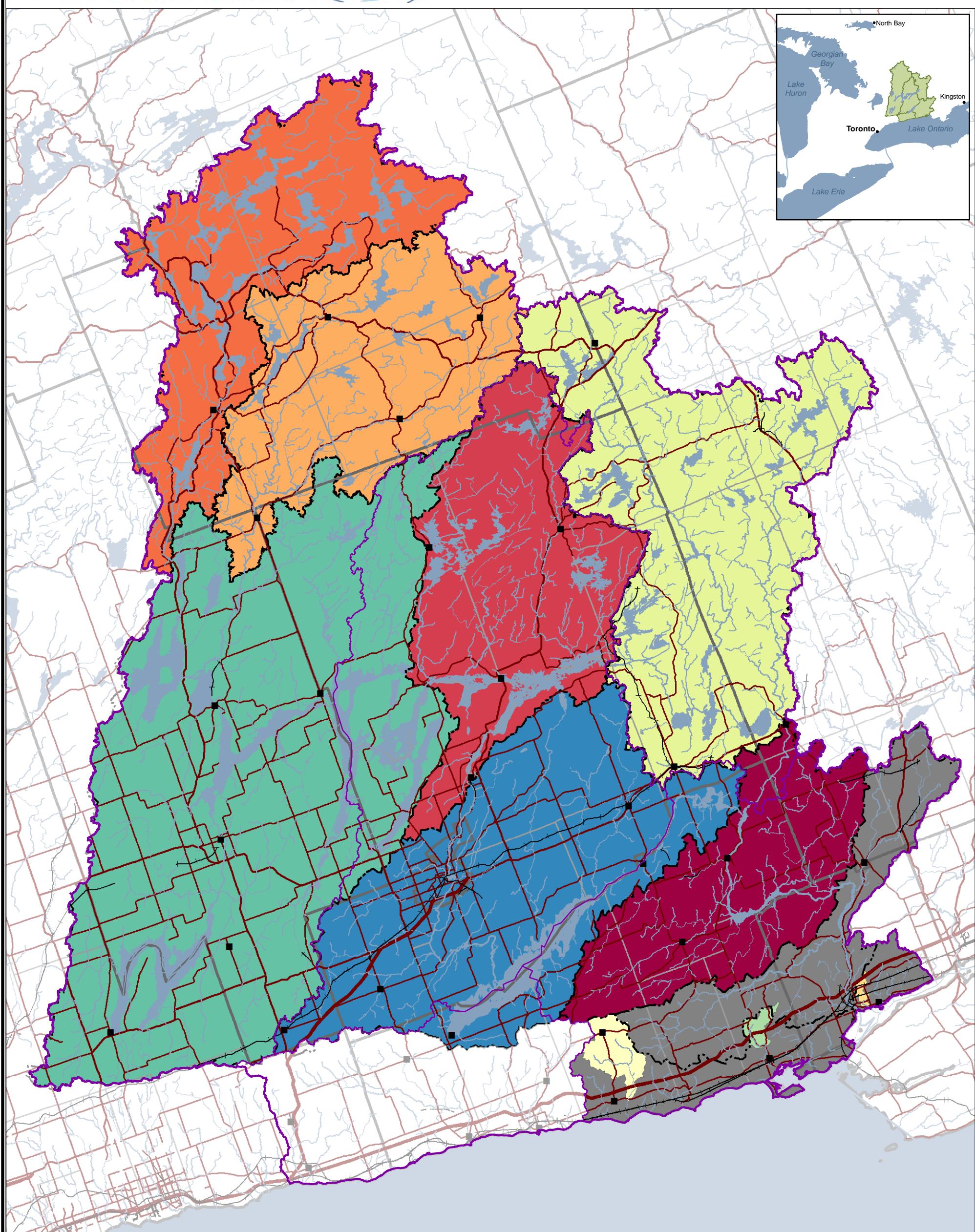
Hydrometric Stations

- ▲ Water Survey of Canada Flow Gauging Station (Active)
- ▲ Water Survey of Canada Flow Gauging Station (Discontinued)
- ▲ Trent Severn Waterway Flow Gauging Stations

0 5 10 20 30 40
Kilometres

N

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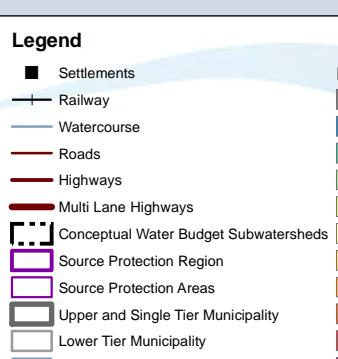


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Flow Distribution (L/sec/km²)

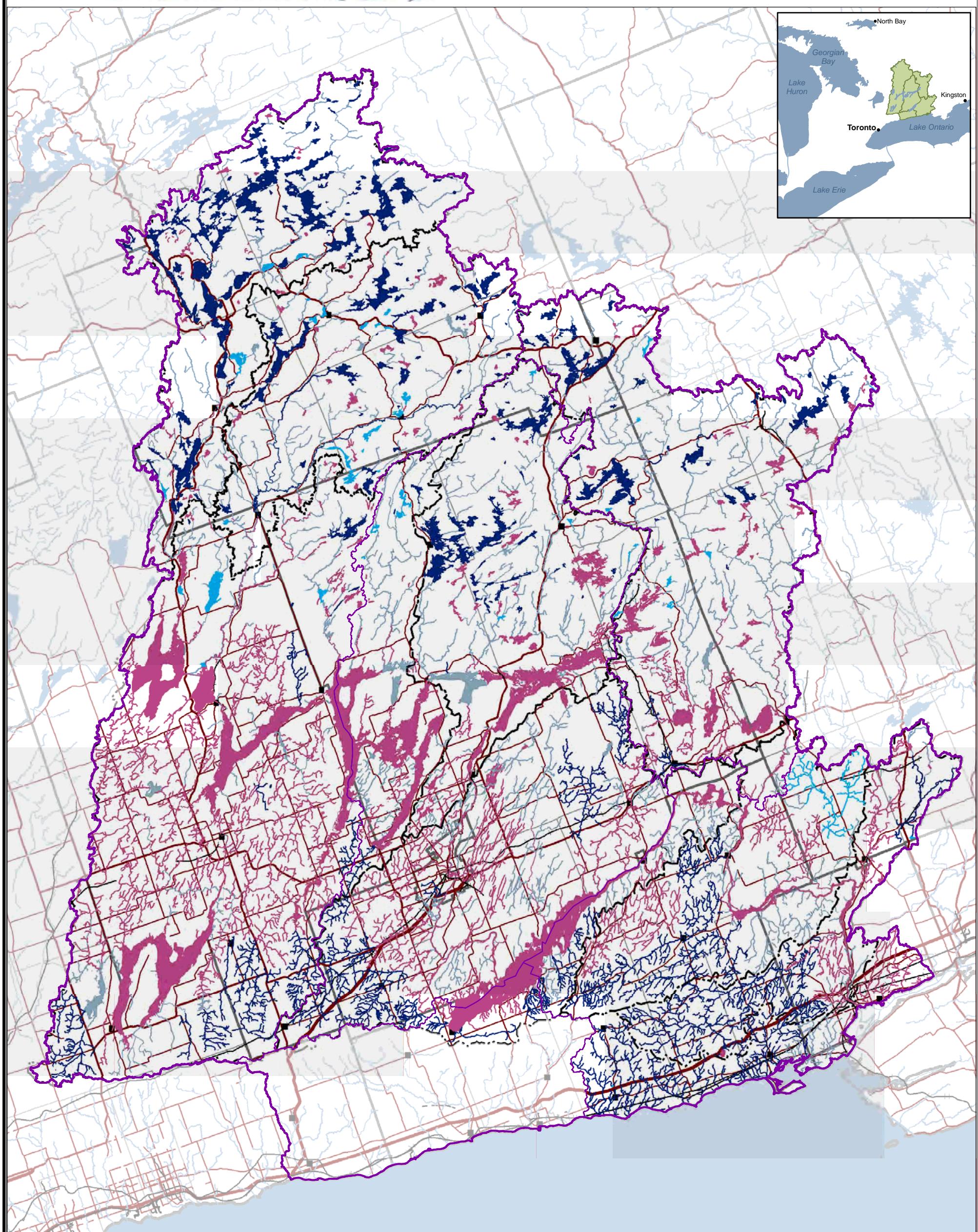
Unclassified
4.98
6.20
10.52
11.85
12.75
13.92
14.33
15.16
20.67
25.96

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0 5 10 20 30 40
Kilometres





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Waterbody / Watercourse

- Cold Water
- Cool Water
- Warm Water
- Unknown

0 5 10 20 30 40
Kilometres

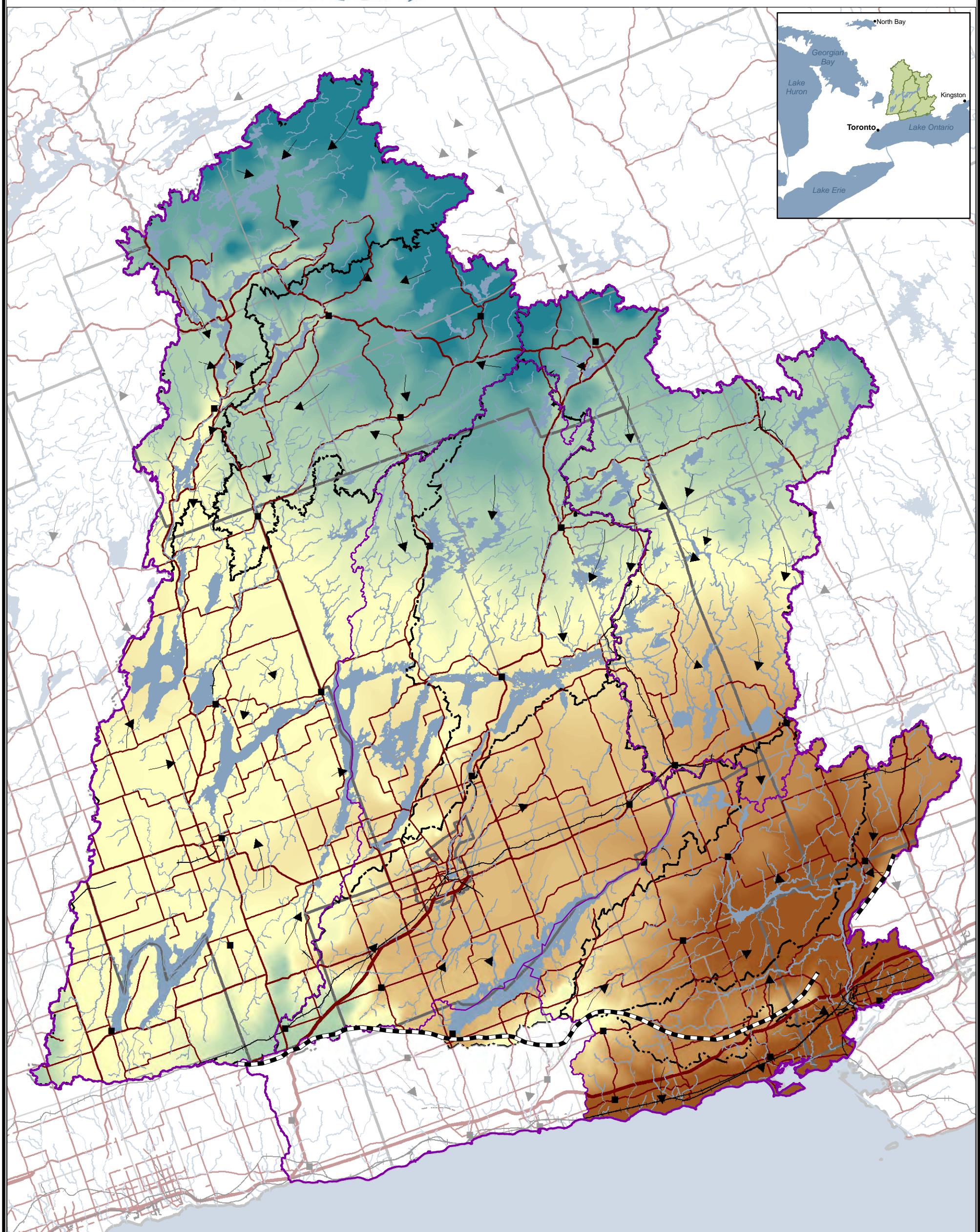


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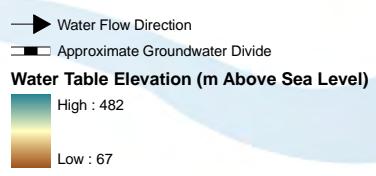
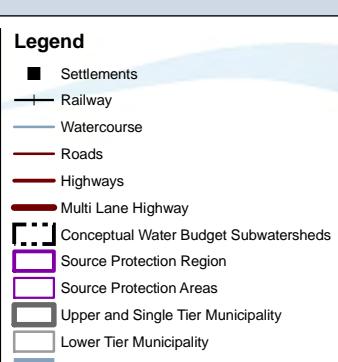
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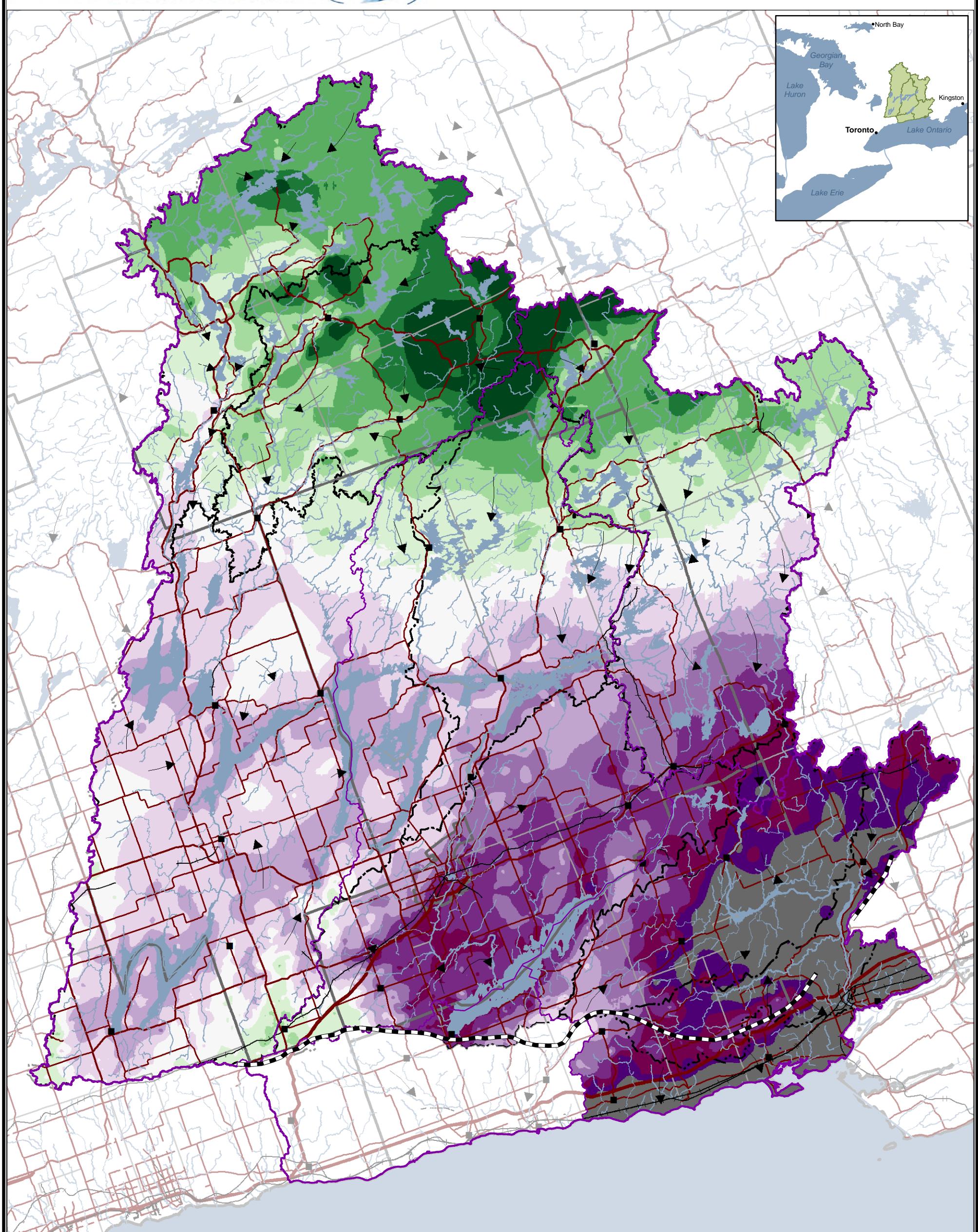
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Water Flow Direction

— Approximate Groundwater Divide

Potentiometric Surface Elevation (m ASL)

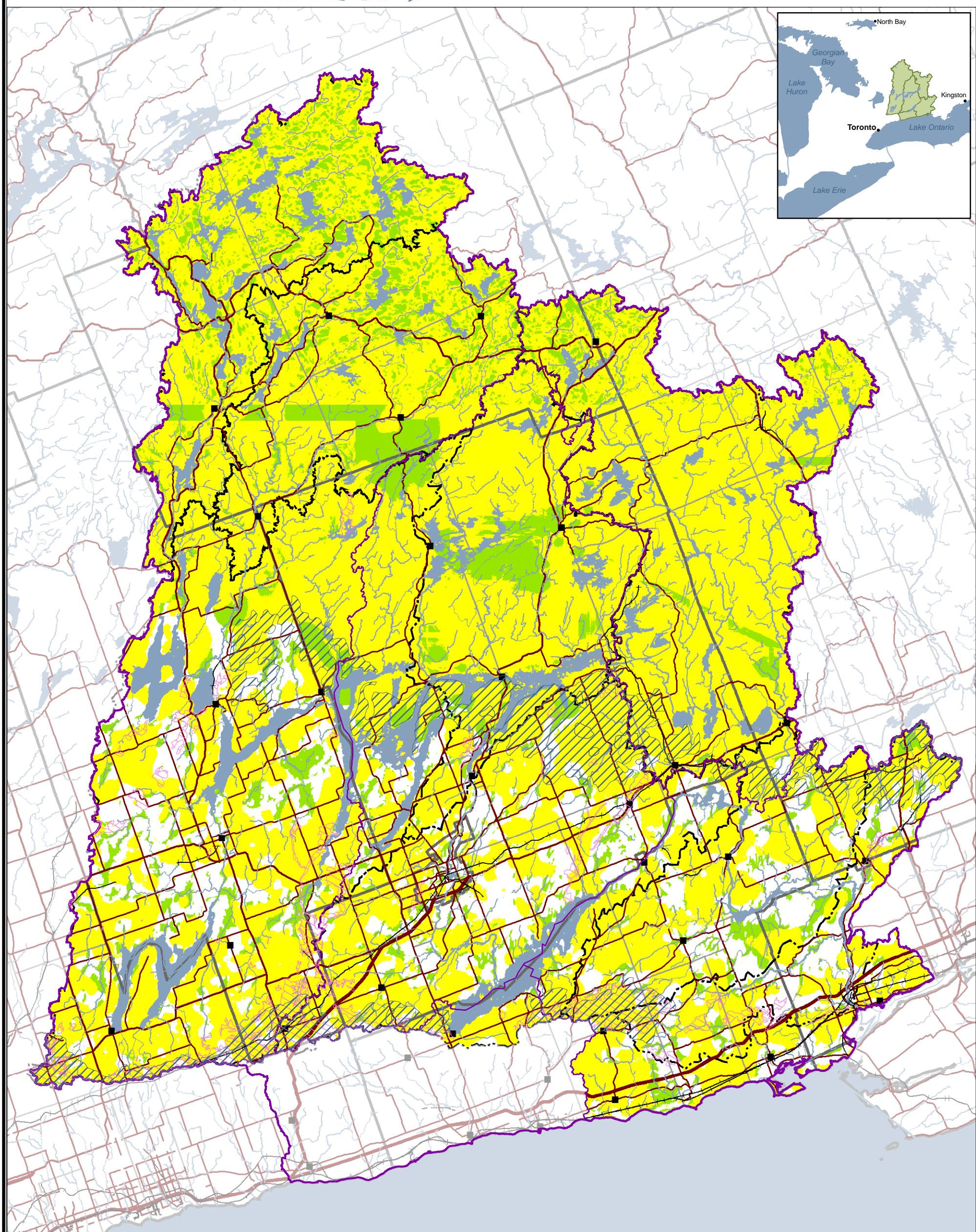
- High : 478
- Low : 52

0 5 10 20 30 40
Kilometres



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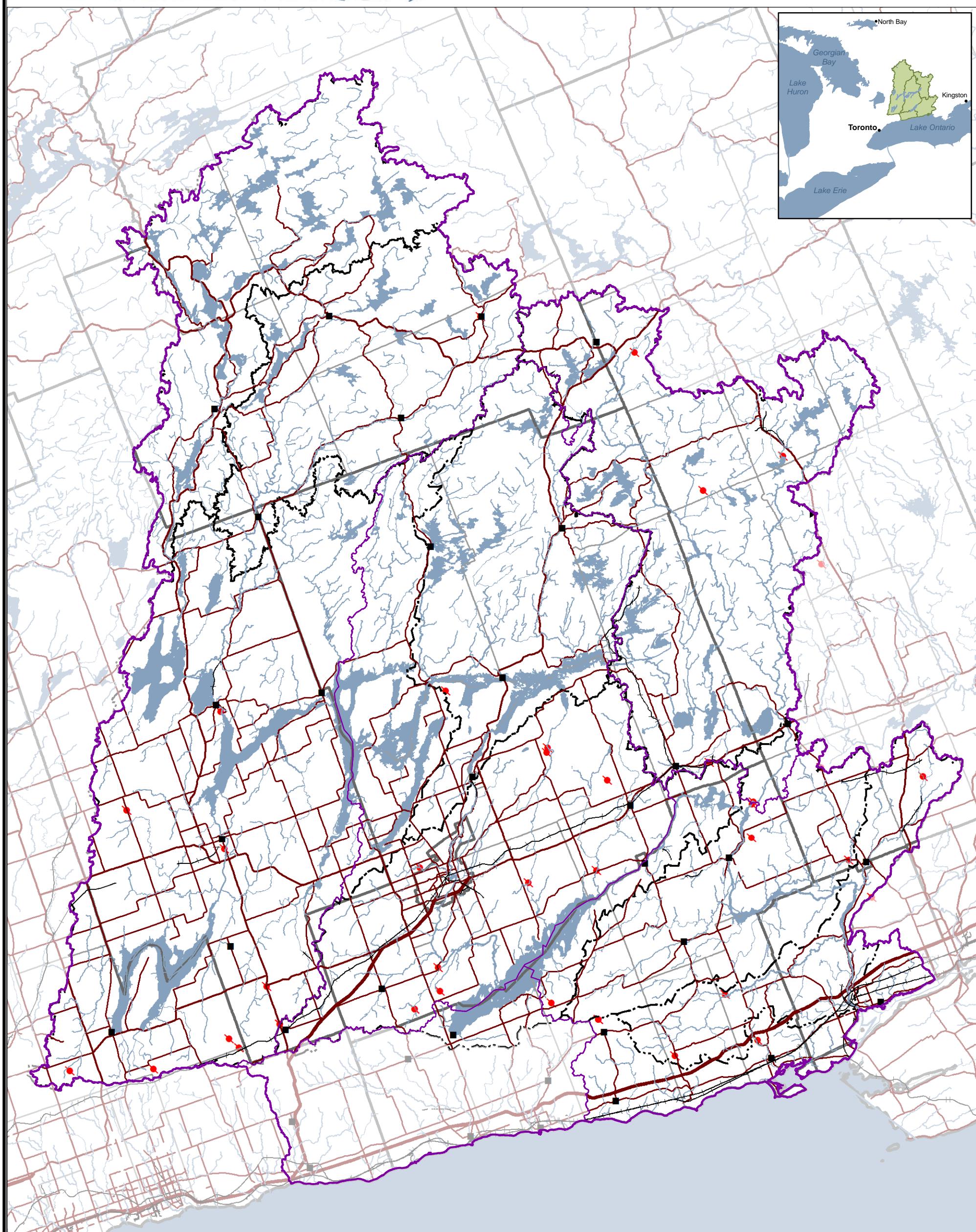
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- Hummocky Topography (Morrison)
- Hummocky Topography (CAMC)
- Recharge
- Discharge

0 5 10 20 30 40
Kilometres



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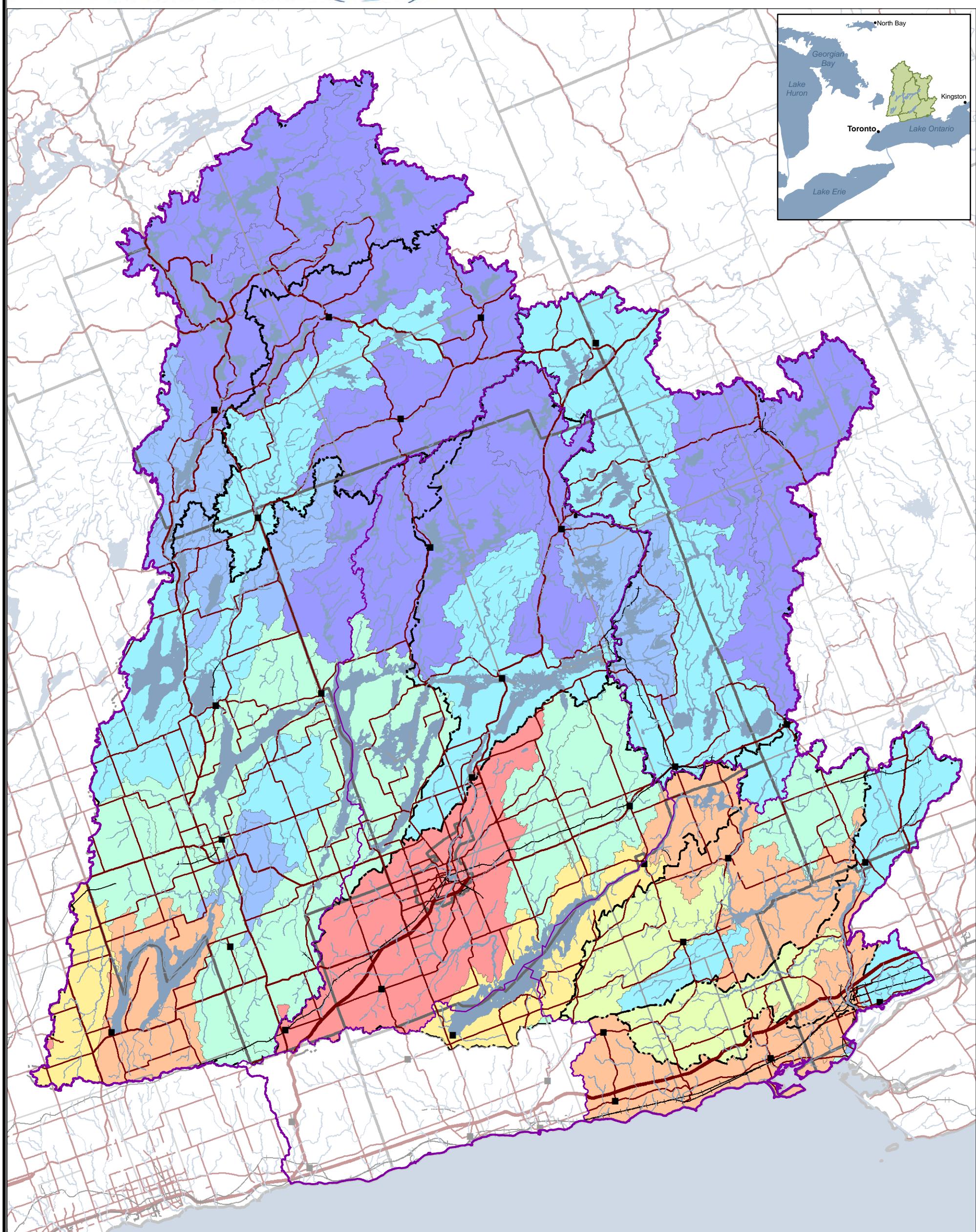
Legend

- Settlements
- Railway
- Watercourse
- Roads
- Highways
- Multi Lane Highway
- Source Protection Region
- Source Protection Areas
- Conceptual Water Budget Subwatersheds
- Upper and Single Tier Municipality
- Lower Tier Municipality
- Waterbody

● Provincial Groundwater Monitoring Network

0 5 10 20 30 40
Kilometres

N
Trent Conservation Coalition
Source Protection Region
www.trentsourceprotection.on.ca



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OTHER DATA SOURCES:
Conceptual Water Budget Subwatersheds: Trent Conservation Coalition

Legend

- Settlements
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- Watercourse
- Roads
- Highways
- Multi Lane Highway
- Source Protection Region
- Source Protection Areas
- Conceptual Water Budget Subwatersheds
- Upper and Single Tier Municipality
- Lower Tier Municipality
- Waterbody

Water Use by Subwatershed (m³ / year)

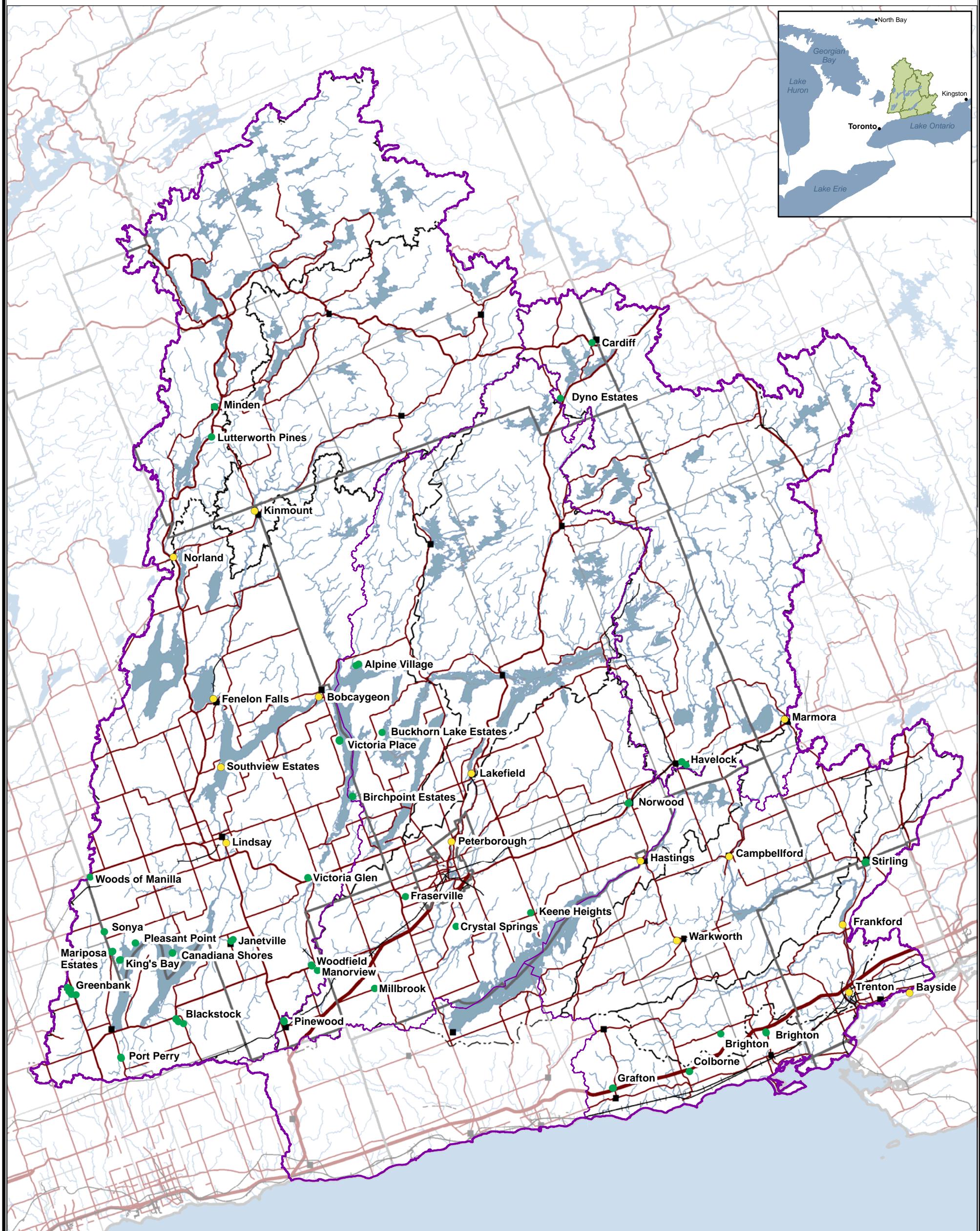
246 - 10000
10001 - 50000
50001 - 100000
100001 - 200000
200001 - 300000
300001 - 400000
400001 - 500000
500001 - 2000000

0 5 10 20 30 40
Kilometres



**Trent Conservation Coalition
Source Protection Region**

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OTHER DATA SOURCES:
Conceptual Water Budget Subwatersheds: Trent Conservation Coalition

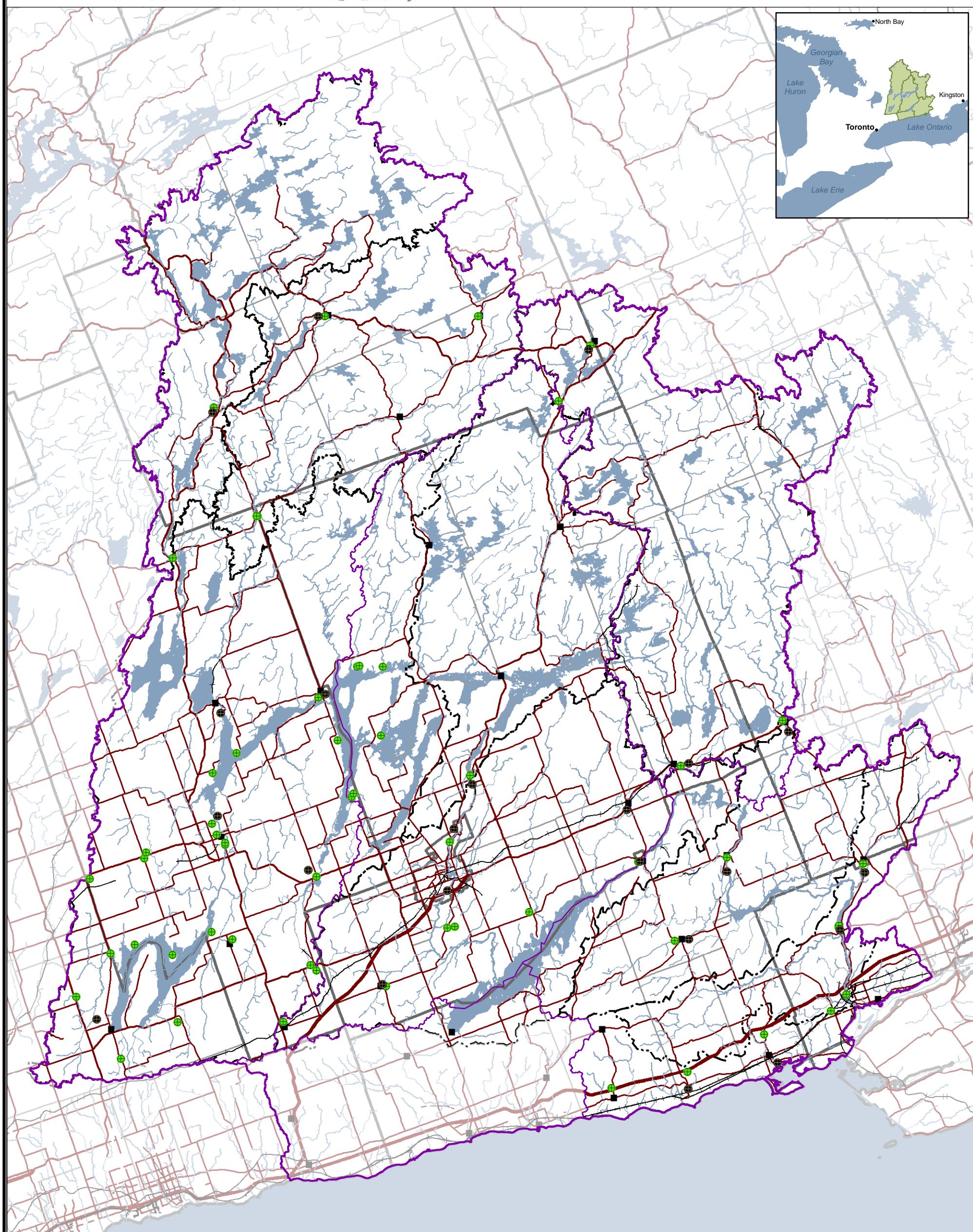
Legend

- Settlements
- Railroad
- Watercourse
- Roads
- Highways
- Multi Lane Highway
- Source Protection Region
- Source Protection Areas
- Conceptual Water Budget Subwatersheds
- Upper and Single Tier Municipality
- Lower Tier Municipality
- Waterbody

- Surface Water Intake
- Groundwater Well

0 5 10 20 30 40
Kilometres

**Trent Conservation Coalition
Source Protection Region**
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OTHER DATA SOURCES:
Conceptual Water Budget Subwatersheds: Trent Conservation Coalition

Legend

- Settlements
- Railways
- Roads
- Highways
- Multi Lane Highway
- Source Protection Region
- Source Protection Areas
- Conceptual Water Budget Subwatersheds
- Upper and Single Tier Municipality
- Lower Tier Municipality
- Waterbody

● Municipal / Provincial Sewage Treatment Plant

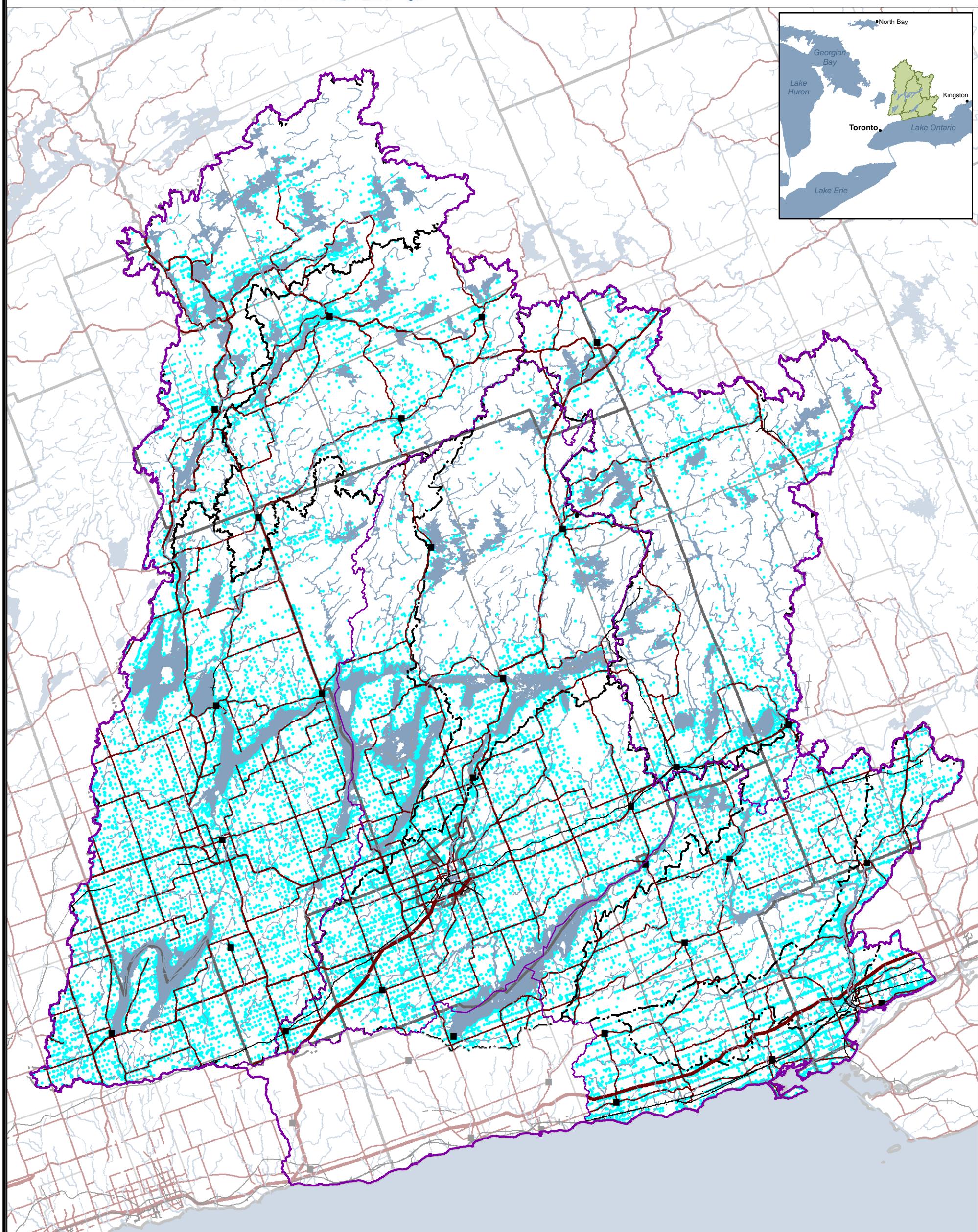
■ Municipal Water Treatment Plant

0 5 10 20 30 40
Kilometres



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Source Protection Region**

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OTHER DATA SOURCES:
Conceptual Water Budget Subwatersheds: Trent Conservation Coalition



Legend

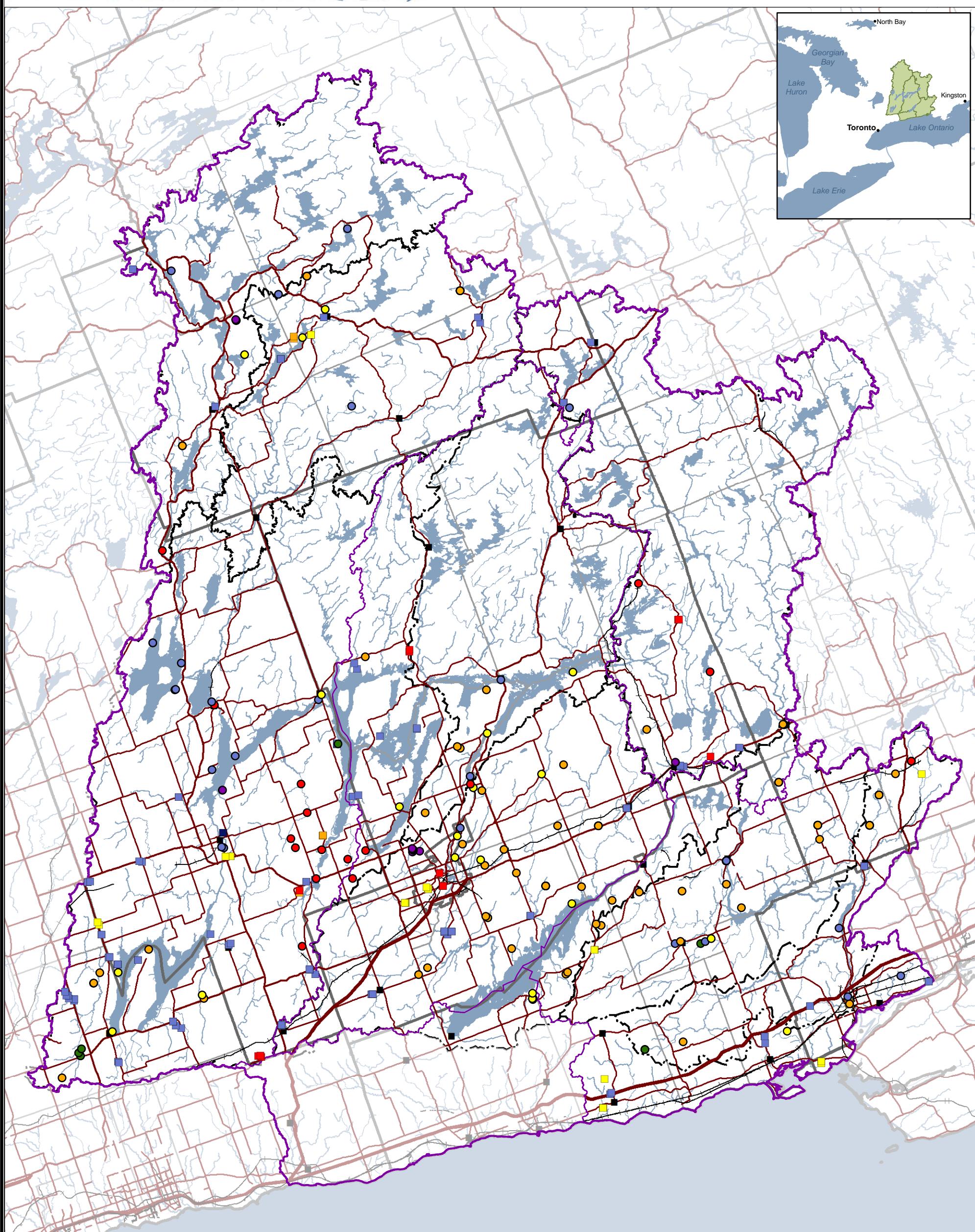
- Settlements
- Railway
- Watercourse
- Roads
- Highways
- Multi Lane Highway
- Source Protection Region
- Source Protection Areas
- Conceptual Water Budget Subwatersheds
- Upper and Single Tier Municipality
- Lower Tier Municipality
- Waterbody

• Registered Domestic Wells

0 5 10 20 30 40
Kilometres



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Source Protection Region
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OTHER DATA SOURCES:
Conceptual Water Budget Subwatersheds: Trent Conservation Coalition



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Legend

- Settlements
- Railway
- Watercourse
- Roads
- Highways
- Multi Lane Highway
- Source Protection Region
- Source Protection Areas
- Conceptual Water Budget Subwatersheds
- Upper and Single Tier Municipality
- Lower Tier Municipality
- Waterbody

Permitted Surface Water Takings

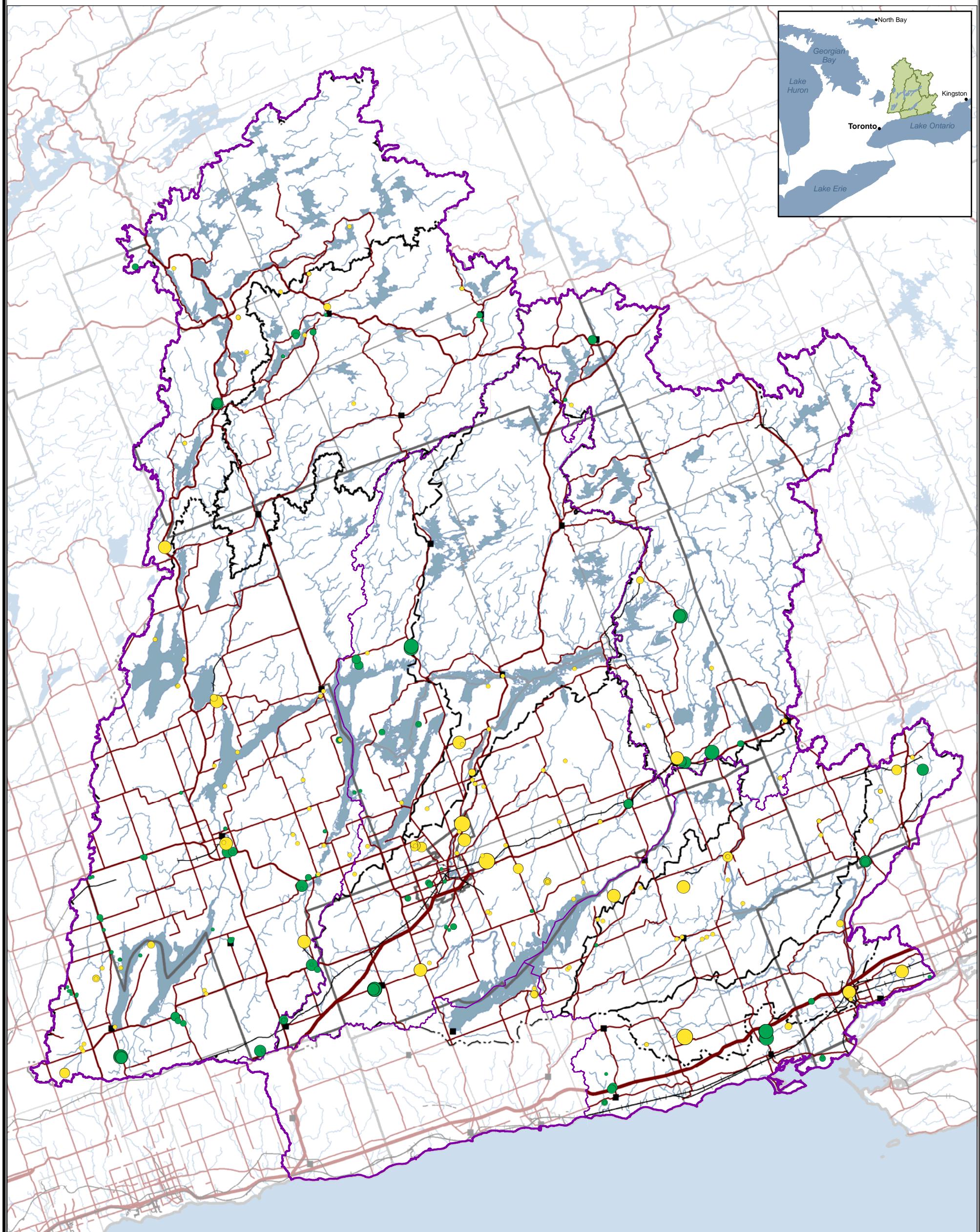
- Industrial
- Agricultural
- Commercial
- Recreational
- Water Supply
- Miscellaneous

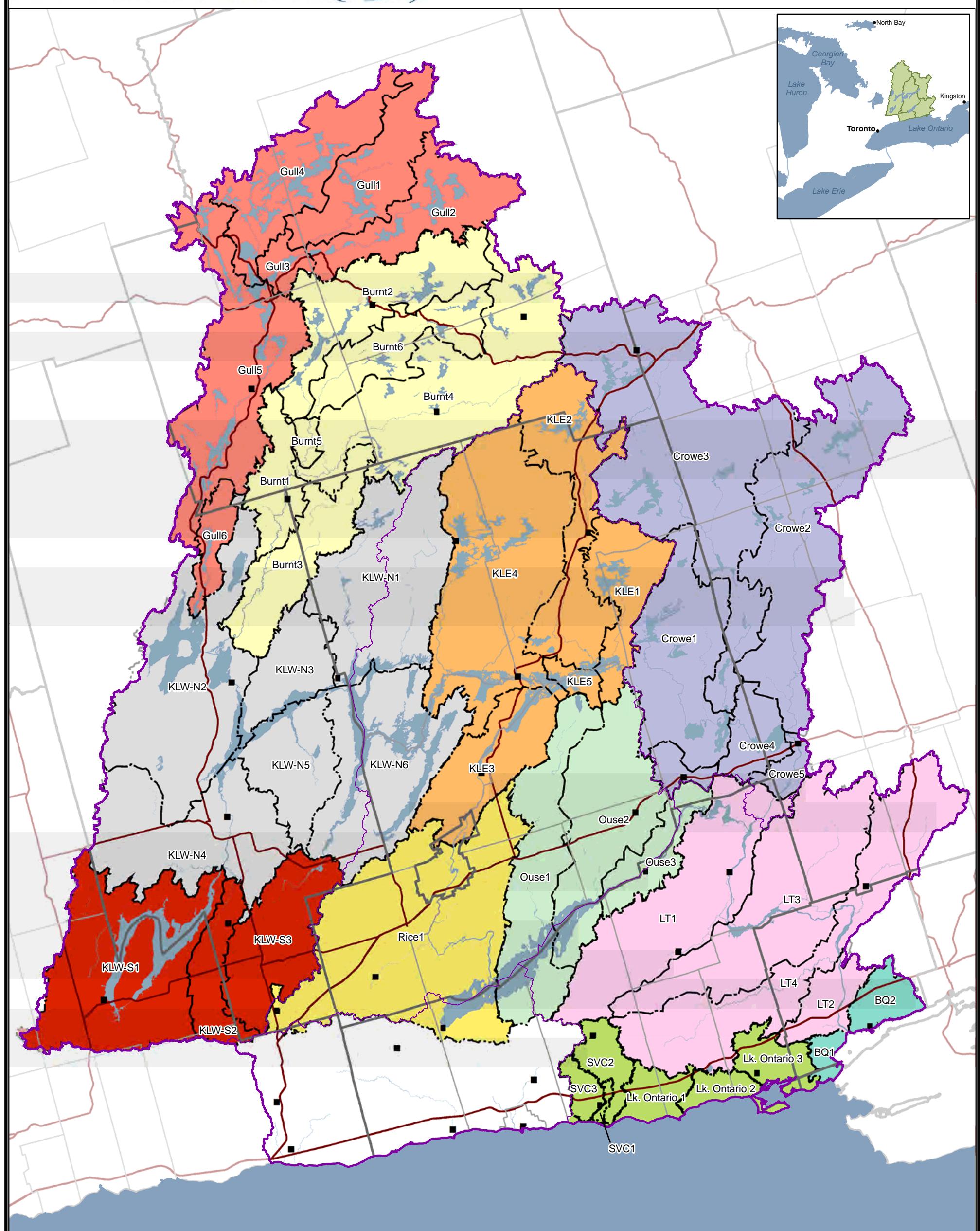
Permitted Groundwater Takings

- Industrial
- Commercial
- Water Supply
- Miscellaneous
- Remediation

0 4.5 9 18 27 36
Kilometres

N
Trent Conservation Coalition
Source Protection Region
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OTHER DATA SOURCES:
Conceptual Water Budget Subwatersheds: Trent Conservation Coalition

Legend

- Settlements
- Railway
- Watercourse
- Roads
- Highways
- Multi Lane Highway
- Source Protection Region
- Source Protection Areas
- Upper and Single Tier Municipality
- Lower Tier Municipality
- Waterbody

Tier 1 Water Budget Subwatersheds

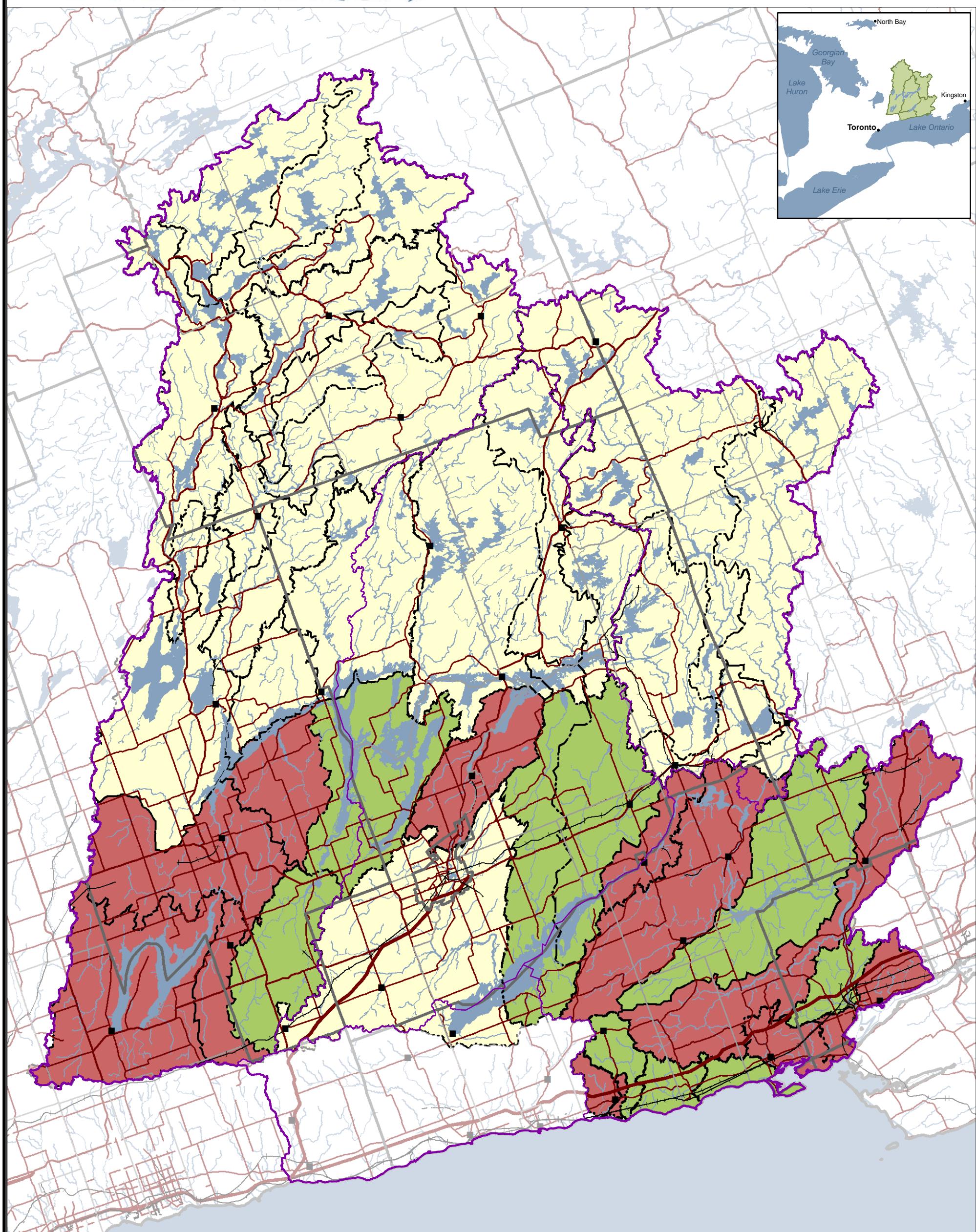
- BAY OF QUINTE TRIBUTARIES
- BURNT RIVER
- CROWE RIVER
- GULL RIVER
- KAWARTHA LAKES EAST
- LAKE ONTARIO TRIBUTARIES
- LOWER TRENT
- KAWARTHA LAKES WEST (NORTHERN)
- OUSE RIVER
- RICE LAKE
- KAWARTHA LAKES WEST (SOUTHERN)

Please refer to table 3.3-6 in the text for a description of the Tier 1 subwatersheds

0 5 10 20 30 40
Kilometres



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Legend

- Settlements
- Railway
- Watercourse
- Roads
- Highways
- Multi Lane Highway
- Source Protection Region
- Source Protection Areas
- Upper and Single Tier Municipality
- Lower Tier Municipality
- Waterbody

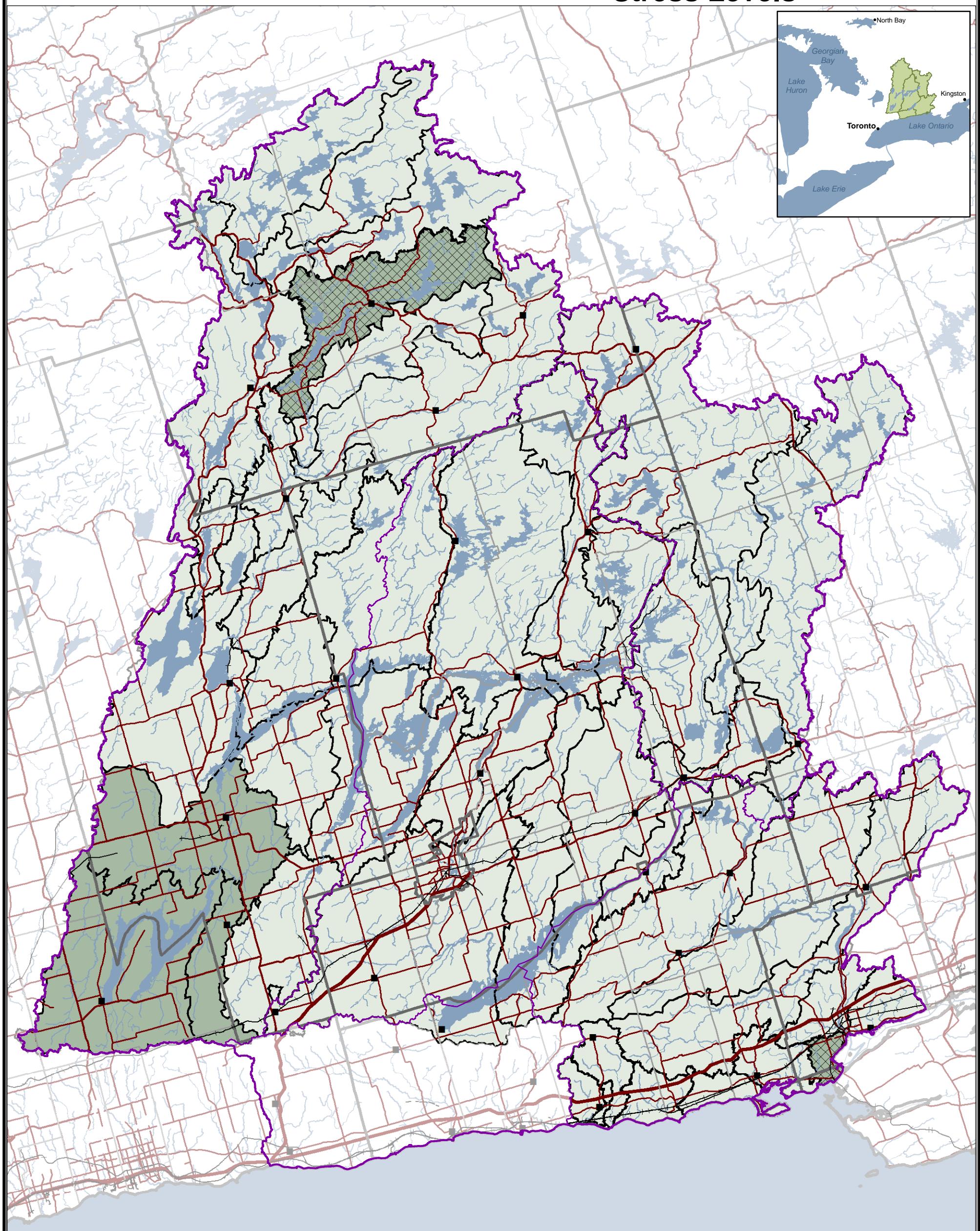
Tier 1 Water Budget Subwatersheds

- Net Balanced
- Net Gain
- Net Loss

0 5 10 20 30 40
Kilometres



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OTHER DATA SOURCES:
Conceptual Water Budget Subwatersheds: Trent Conservation Coalition

 Ontario
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Legend

- Settlements
- Railway
- Watercourse
- Roads
- Highways
- Multi Lane Highway
- Source Protection Region
- Source Protection Areas
- Upper and Single Tier Municipality
- Lower Tier Municipality
- Waterbody

- Tier 1 Water Budget Subwatershed
- Tier 1 Stressed Subwatershed Without Municipal Drinking Water System

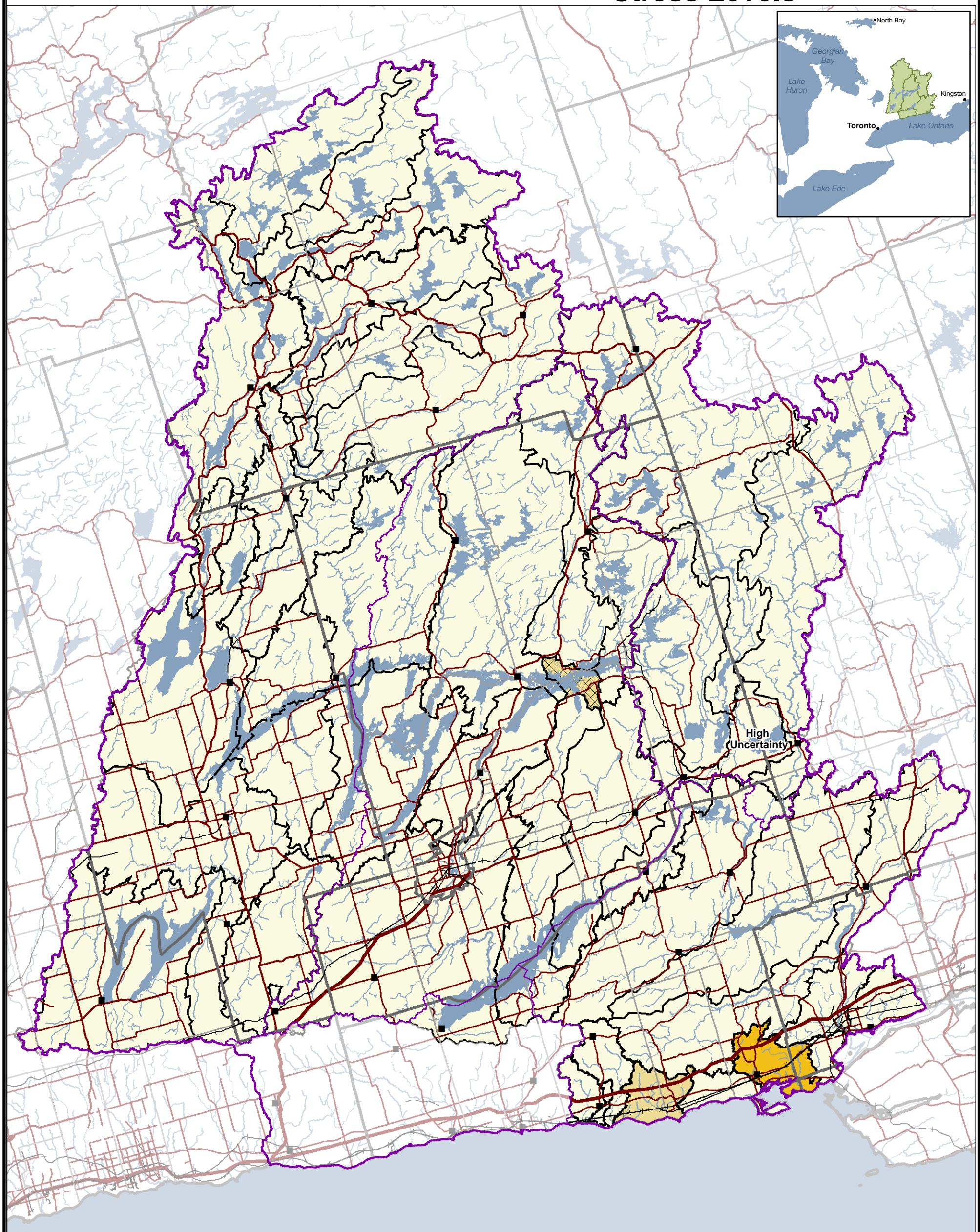
Tier 1 Surface Water Stress Level

- Moderate
- Low

0 5 10 20 30 40
Kilometres



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Source Protection Region**
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Legend

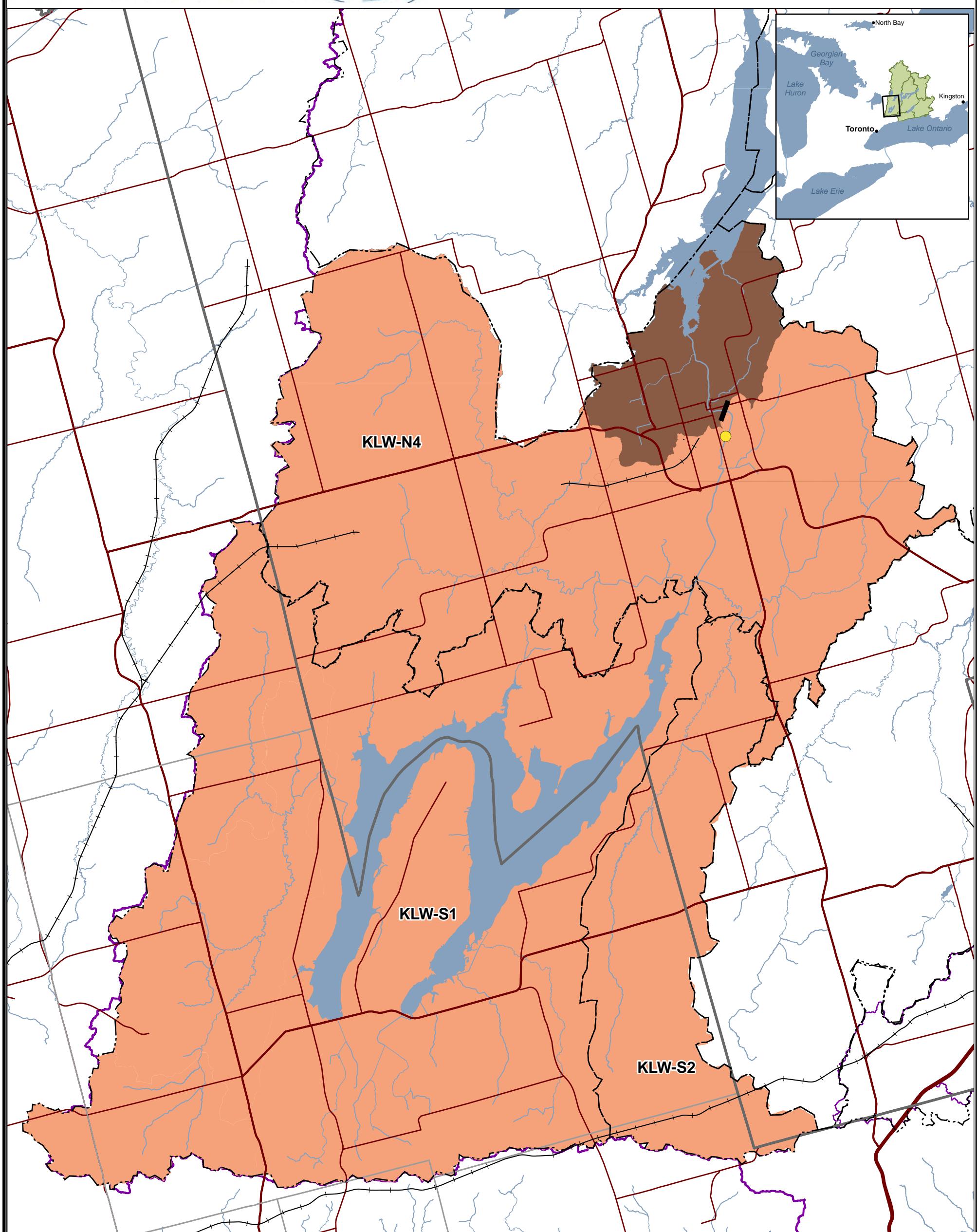
- Settlements
- Railway
- Watercourse
- Roads
- Highways
- Multi Lane Highway
- Source Protection Region
- Source Protection Areas
- Upper and Single Tier Municipality
- Lower Tier Municipality
- Waterbody

- Tier 1 Water Budget Subwatershed
- Tier 1 Stressed Subwatershed Without Municipal Drinking Water System
- Tier 1 Groundwater Stress Level**
- Significant
- Moderate
- Low

0 5 10 20 30 40
Kilometres



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Source Protection Region
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Legend

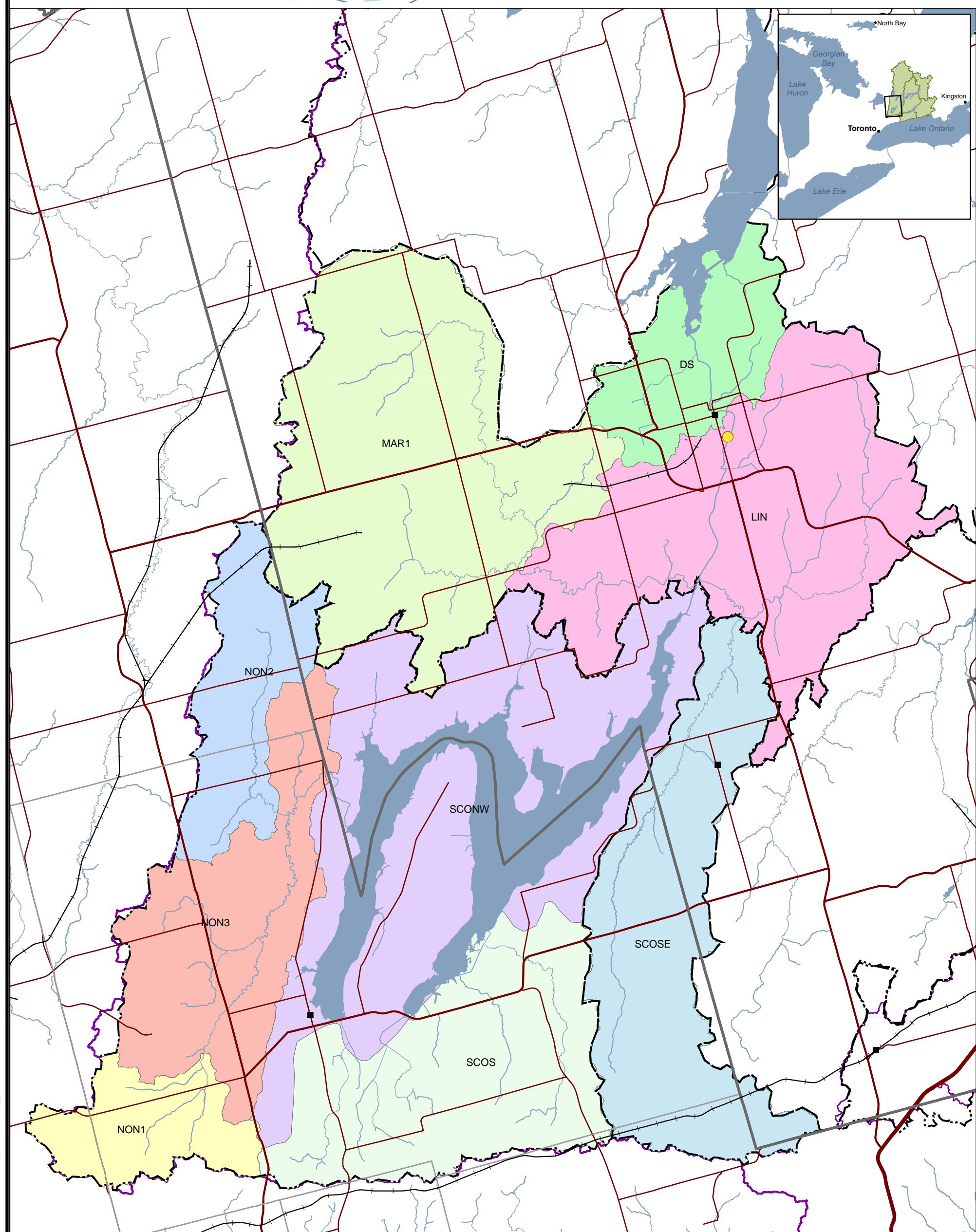
- Settlements
- Railway
- Watercourse
- Roads
- Highways
- Multi Lane Highway
- Source Protection Region
- Source Protection Areas
- Upper and Single Tier Municipality
- Lower Tier Municipality
- Waterbody

- Lindsay Intake
- Lindsay Dam
- Tier 1 Water Budget Subwatersheds
- Lindsay Intake-defined Subwatershed
- Downstream of Lindsay Dam

0 1.5 3 6 9 12
Kilometres



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Source Protection Region
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Legend

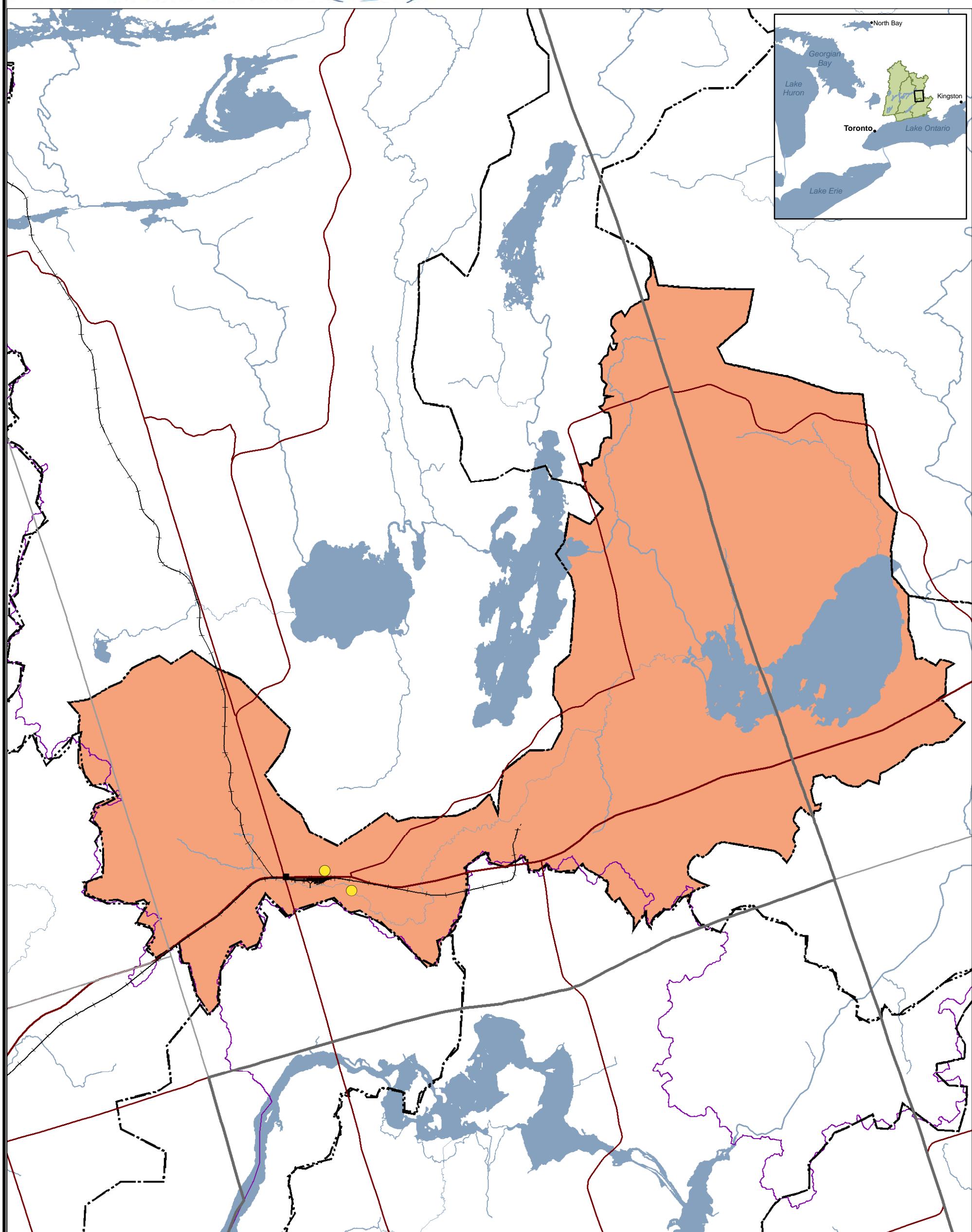
- Settlements
- Railway
- Watercourse
- Roads
- Highways
- Multi Lane Highway
- Source Protection Region
- Source Protection Areas
- Upper and Single Tier Municipality
- Lower Tier Municipality
- Waterbody

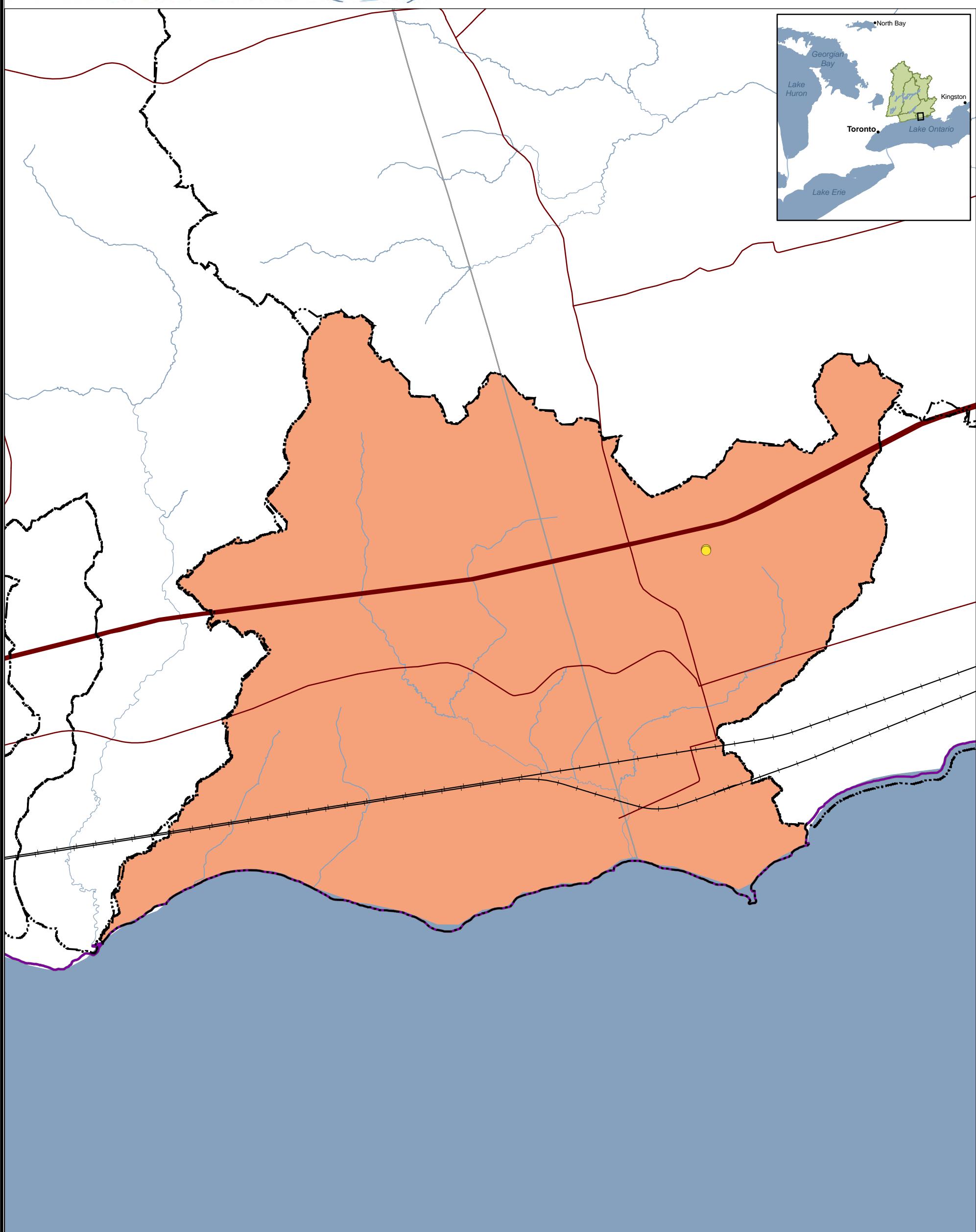
● Lindsay Municipal Intake
Discretization of Lindsay Subwatershed for modeling

SCONW - Scugog Northwest Subwatershed
SCOS - Scugog South Subwatershed
SCOSE - Scugog Southeast Subwatershed
LIN - Lindsay Subwatershed
MAR 1 - Mariposa Brook 1 Subwatershed
NON 1 - Nonquon River 1 Subwatershed
NON 2 - Nonquon River 2 Subwatershed
NON 3 - Nonquon River 3 Subwatershed
DS - Subwatershed downstream of Lindsay Dam

0 1.5 3 6 9 12
Kilometres

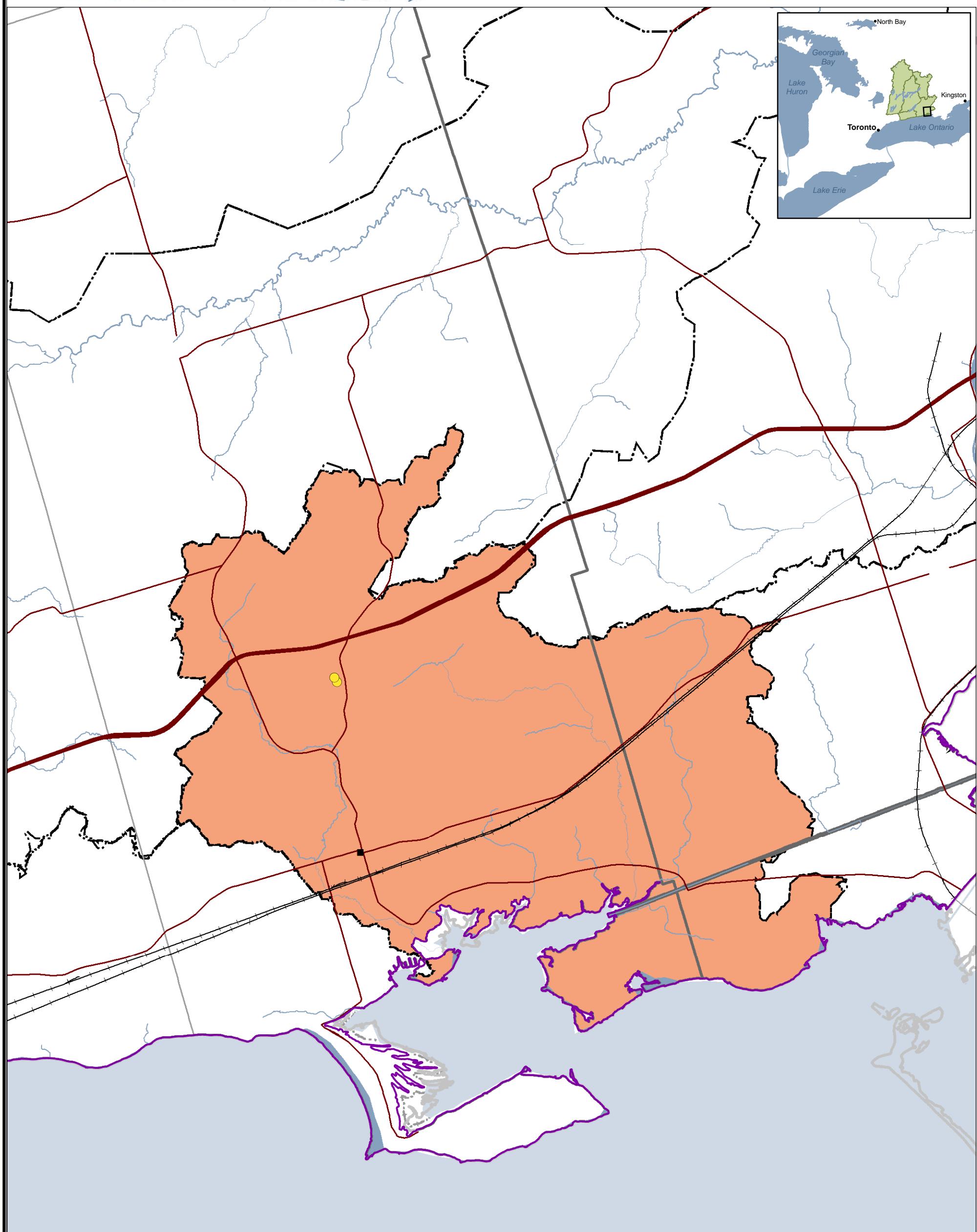
N
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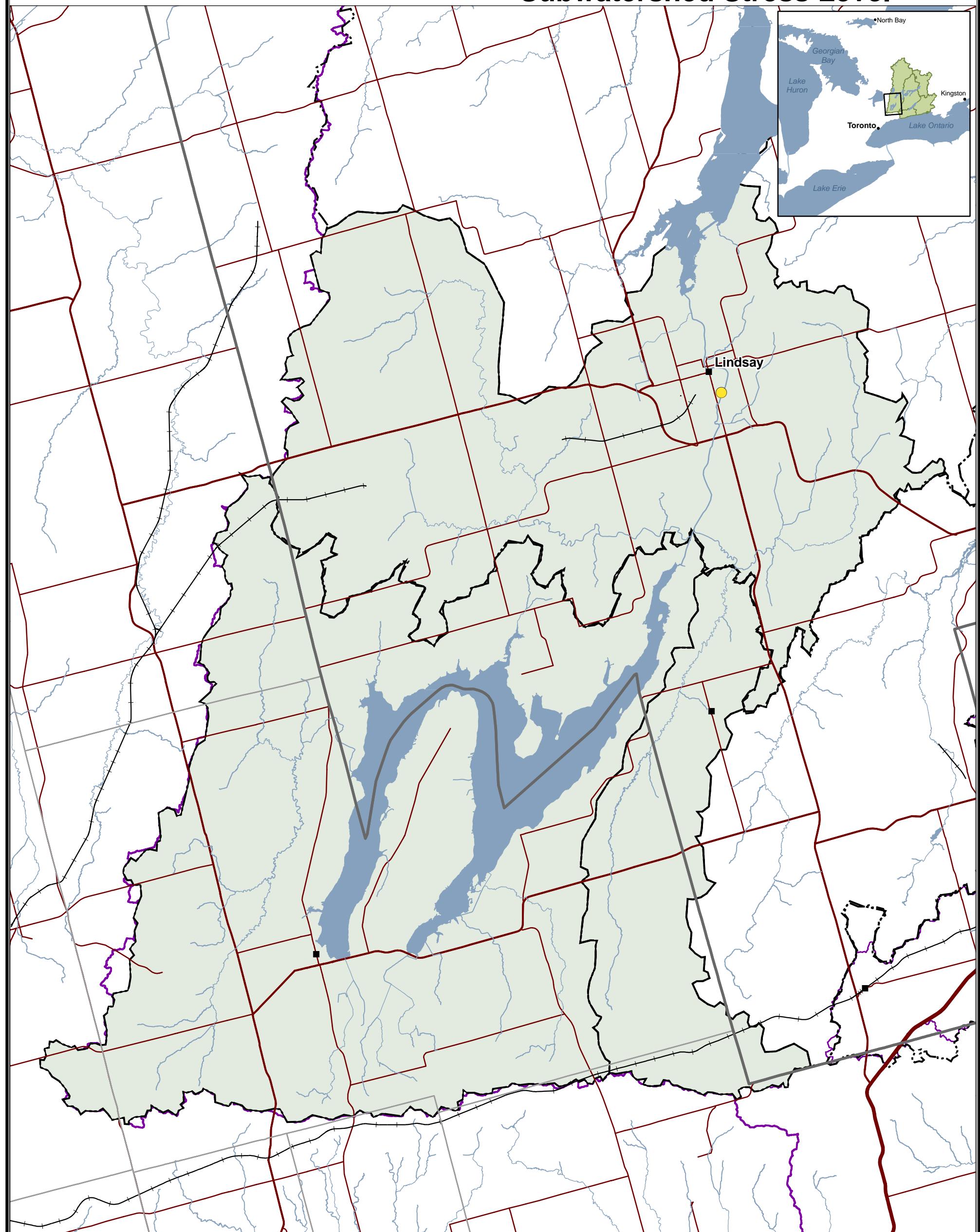
Legend

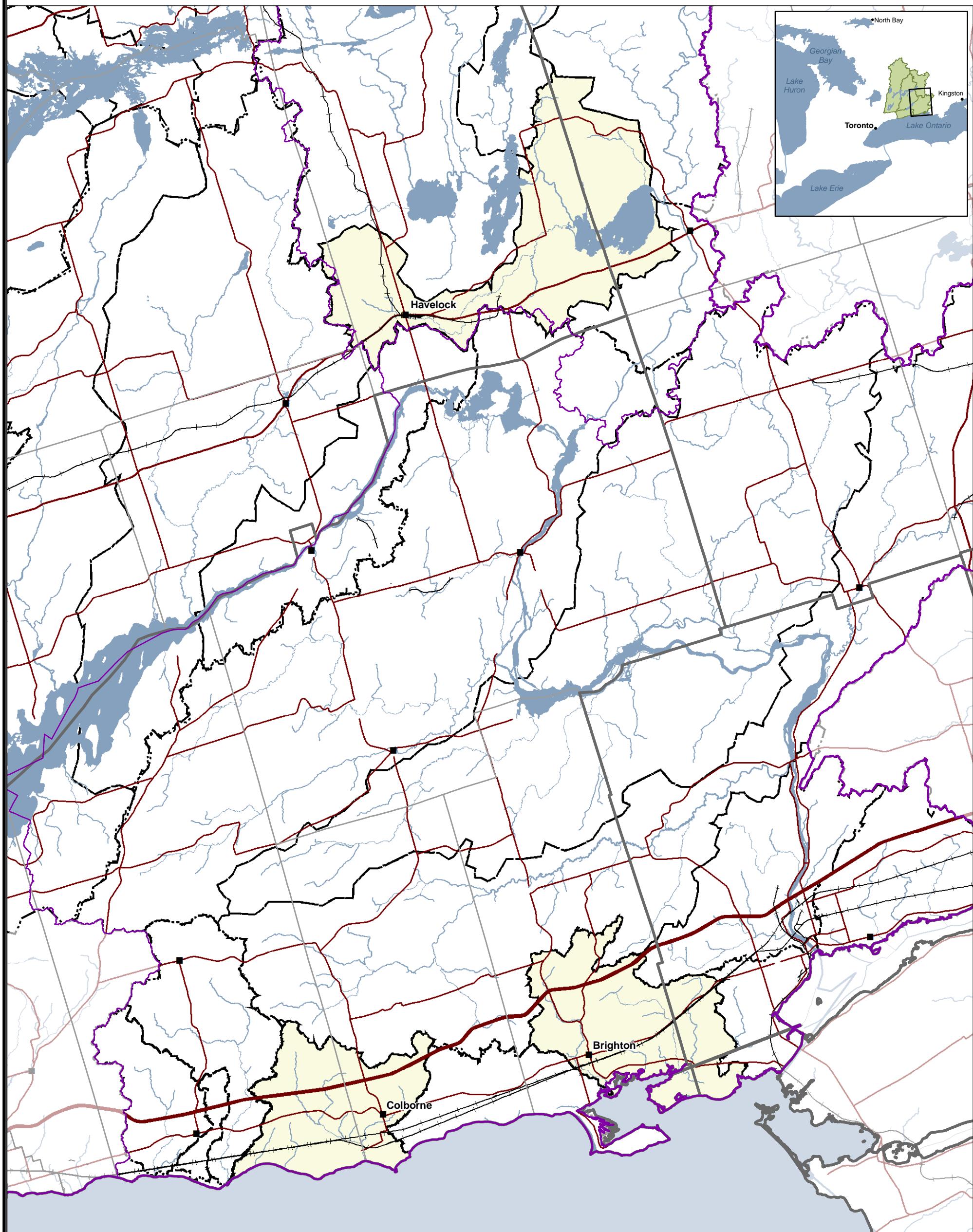
- Settlements
- Railway
- Watercourse
- Roads
- Highways
- Multi Lane Highway
- Source Protection Region
- Source Protection Areas
- Upper and Single Tier Municipality
- Lower Tier Municipality
- Waterbody
- Brighton Municipal Wells
- Tier 1 Water Budget Subwatersheds
- Subwatershed Containing Brighton Wells

0 0.5 1 2 3 4
Kilometres



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Source Protection Region
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Legend

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- Source Protection Areas
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- Lower Tier Municipality
- Waterbody

Tier 1 Water Budget Subwatersheds

Low Stress

0 2 4 8 12 16
Kilometres

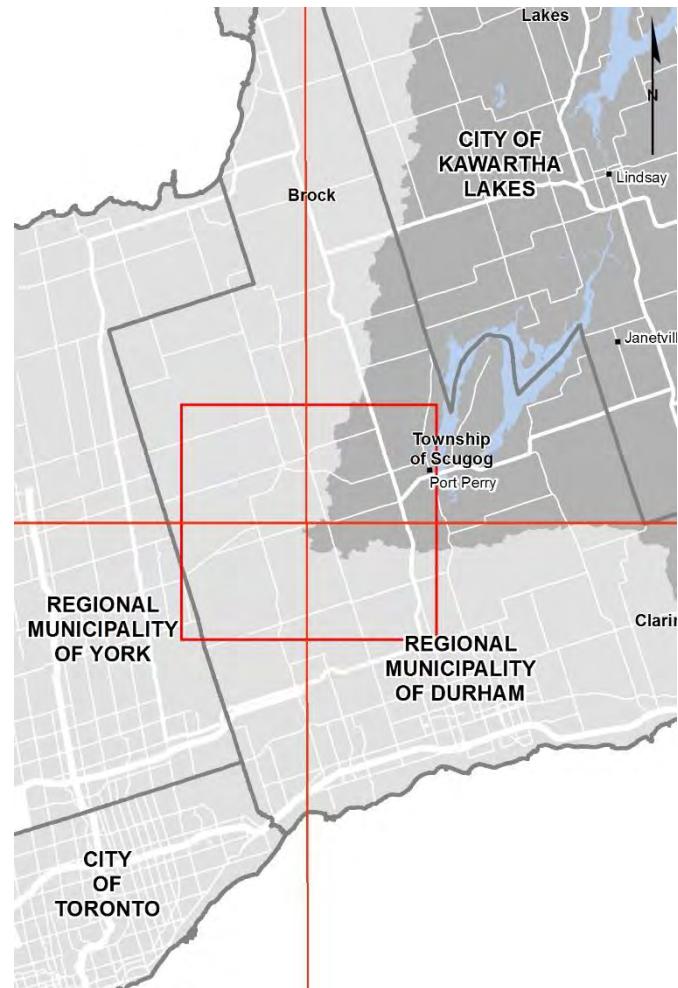
N

Trent Conservation Coalition
Source Protection Region
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**Water Quantity Demand
Q1 & Recharge Q2**

**Kawartha-Haliburton
Source Protection Area**

Policy Applicability Map



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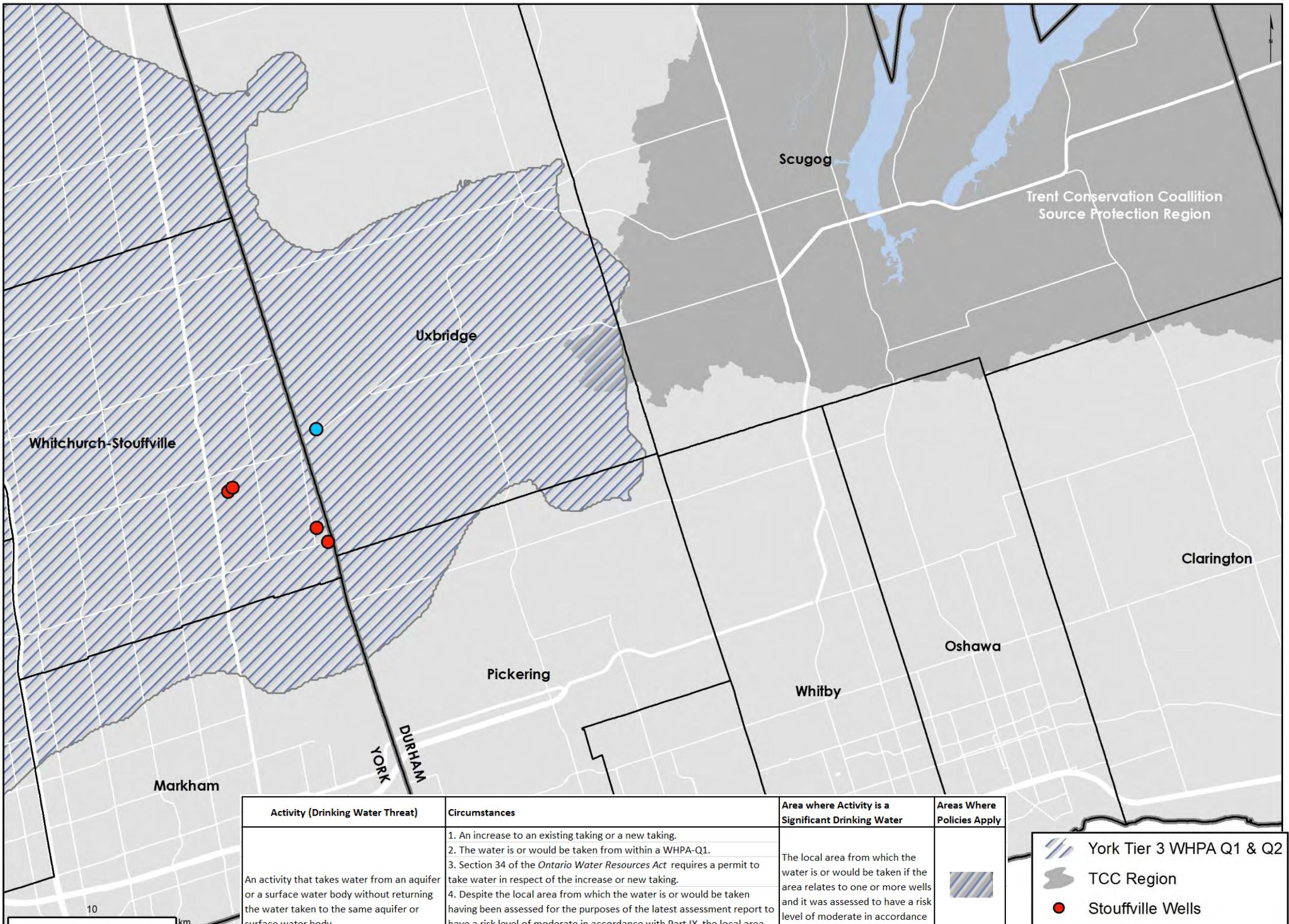
Waterbodies and watercourses located within the extent of an intake protection zone or wellhead protection area are included in that zone.

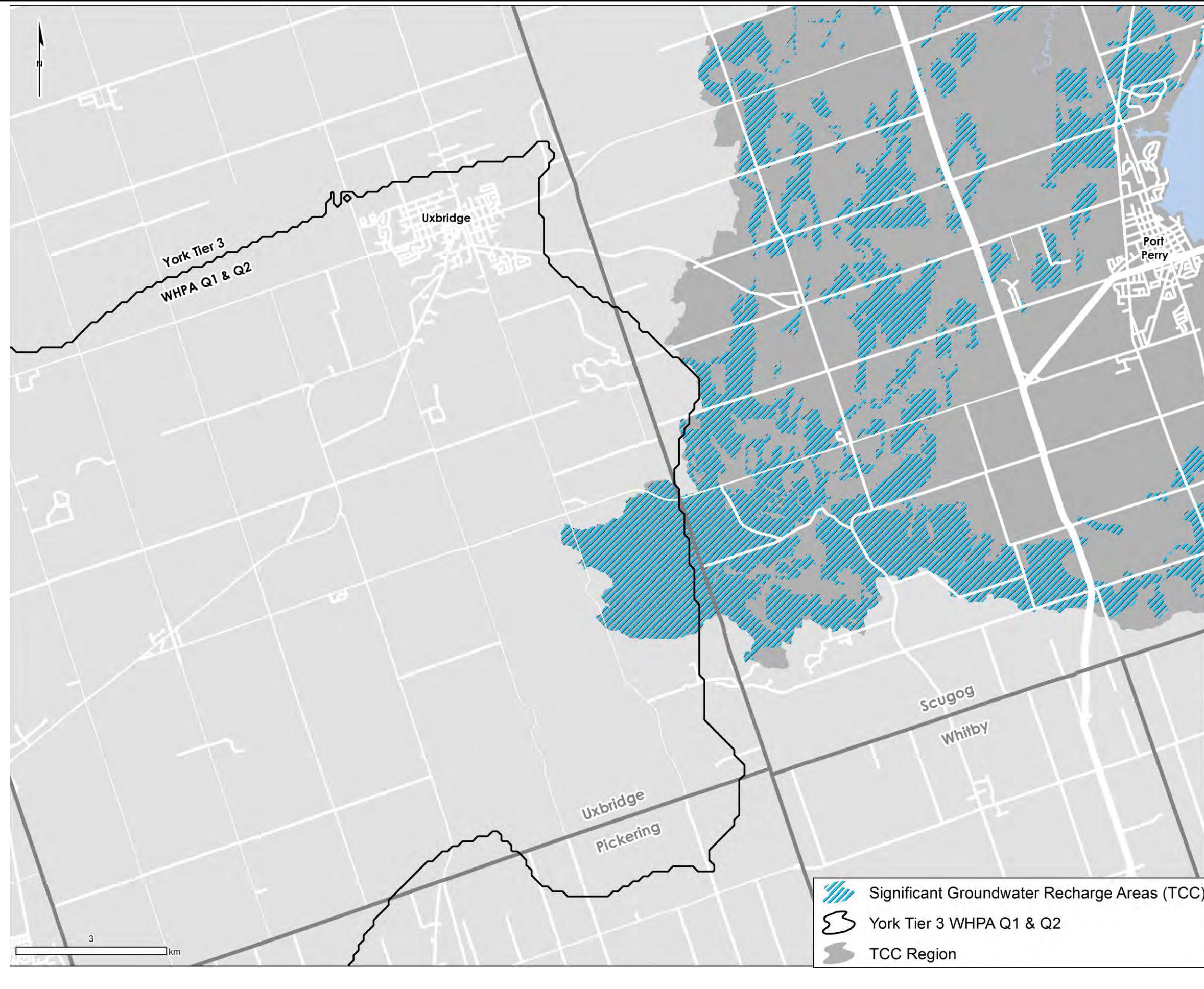


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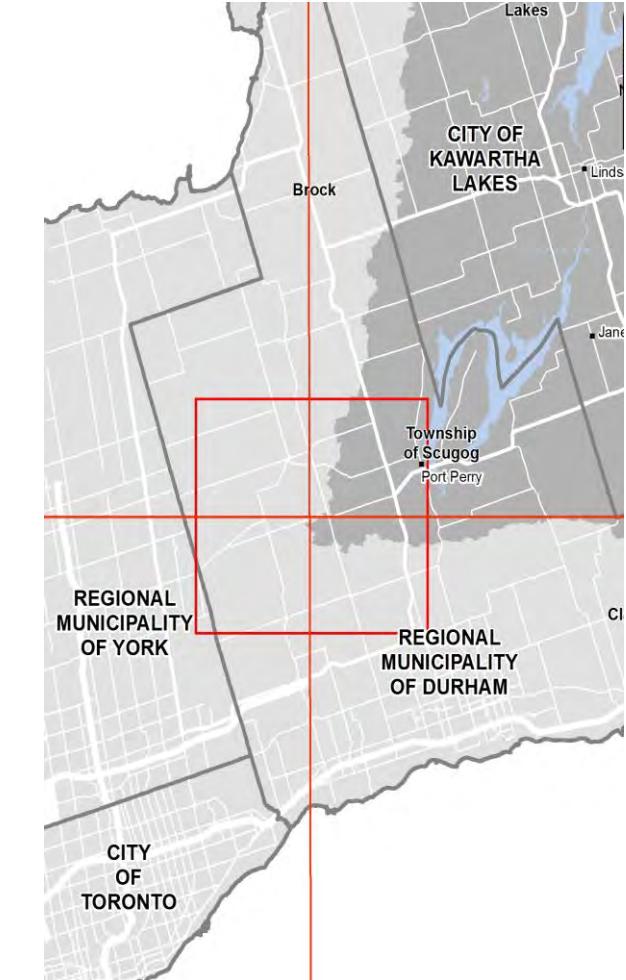
**Trent Conservation Coalition
Source Protection Region**

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Water Quantity: Policy Z-1 WHPA Q2 and SGRA - Kawartha-Haliburton Source Protection Area Policy Applicability Map



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